

# SAFETY DATA SHEET (SDS) according to Regulation (EC) No. 830/2015 amending 1907/2006

1.1	on 1: Identification of the substance/mixture and of the Product identifier:	SR101-Phe-CMK	
	Other means of identification:	SK TOT-PITE-CIV	VIN
1.1a			
1.1b	Alternative product name(s)/ synonyms:		101-Phe-FLISP, SFCK, Serine Protease Inhibitor damine 101 derivative of a phenylalanine linked e.
1.1c	Product number/Catalog #(s):	6151	
1.1d	Internal identification:	Reagent; a sulforho chloromethyl ketone	
1.2	Relevant identified uses of the substance or mixture and uses advised against:	For research use or	nly. Not for use in diagnostic procedures.
1.2a	Brief description of what the substance or mixture is intended to do:	Enzyme inhibitor an	d serine protease detection reagent.
1.3	Details of the supplier of the SDS:		
1.3a	Name:		Гесhnologies, LLC (ICT)
1.3b	Address:	9401 James Avenue	
1.3c	City, State, Zip, Country	Bloomington, MN 55	
1.3d	Phone number:	1-800-829-3194 and	d 952-888-8788
1.3e	Fax number:	952-888-8988	
1.3f	Website:	www.immunochemis	
1.3g	Email:	help@immunochem	
1.3h <b>1.4</b>	Contact person at ICT: Emergency telephone number:	Quality Documentat	ion Department 4 (USA & Canada) or 952-888-8788 world wide;
1.4	Emergency telephone number:	ICT hours are 9 am- (excluding holidays)	4 (USA & Canada) or 952-666-6766 world wide, -5 pm central time USA, Monday through Friday  Chemtrec 24-hour access within USA and -9300 or +1 703-527-3887. Collect calls accepted
	on 2: Hazards identification	1	
<b>2.1</b> 2.1a	Classification of the substance or mixture:  Product is a:	Substance.	
2.1a 2.1b	Classification according to (EC) No. 1272/2008		criteria for classification.
2.10 2.1c	{CLP}: The most important adverse physiochemical, human	Refer to Sections 9-	
2.16	health, and environmental effects:	Refer to Sections 9-	12.
2.2	Label elements:	None.	
2.2a	GHS label elements, including precautionary	None.	
	statements:		
2.2b	Contains:	None.	
2.2c	Labeling in accordance with (EC) No. 1272/2008:	None.	
2.2d	Hazard Pictograms (Hazard Symbols):	None.	
2.2e	Signal word:	None.	
2.2f	Hazard statements:	None.	
2.2g	Precautionary statements:	None.	
2.2h	Supplementary precaution statements:	None.	antion overlights
2.3	Other hazards:	No additional inform	iation available.
2.3a 2.3b	Does the chemical meet the criteria for PBT or vPvB?  Other hazards which do not result in classification:	Not applicable.  No information avail	lable.
Sectio	on 3: Composition/information on ingredients		
3.1	Substance:	Item is a substance.	
	3.1a Chemical identity:	SR101-Phe-CMK	
	3.1b Common name, synonyms, etc.:	None.	
	3.1c CAS number and	3.1e %	3.1f Classification according to (EC) No.
	<u>other unique identifiers:</u> <u>3.1d EC number:</u> None. None.	Concentration: 100%	1272/2008 {CLP}: Not classified.
3.1g	Chemical identity of any impurity, stabilizing additive,	None known.	
J. 19	or individual constituent other than the main constituent, which is itself classified and which contributes to the classification (such as product identifier, trade name, identification numbers):	TOTAL MINITE	
3.1h	Other information on the substance:	None.	

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Sootie	an A. First aid massures	
4.1	on 4: First aid measures  Description of first aid measures:	If concerned, get medical attention/advice and provide physician with
	Bosonphon of mot did modedness.	SDS information. Wash contaminated clothing before re-use. Never
		give anything to an unconscious person.
4.1a	Inhalation:	Due to the small packaging the risk of inhalation is minimal. Remove to
		fresh air and keep at rest in a comfortable position for breathing. If not
		breathing, give artificial respiration. Rinse nose and mouth with water.
4.46	Chin contact:	Get medical attention if any discomfort continues.
4.1b	Skin contact:	Wash skin thoroughly with soap and water for several minutes; continue to rinse for at least 15 minutes. Remove any contaminated
		clothing and shoes and wash thoroughly before reuse. Get medical
		attention if any discomfort continues.
4.1c	Eye contact:	Promptly wash eyes with plenty of water while lifting the eyelids. Make
		sure to remove any contact lenses from the eyes before rinsing.
		Continue to rinse for at least 15 minutes. Get medical attention if any
4.4.1		discomfort continues.
4.1d	Ingestion:	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK
		FLUIDS! Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical
		attention if any discomfort continues.
4.2	Most important symptoms and effects, both acute	
	and delayed:	
4.2a	Inhalation:	May cause coughing or mild irritation.
4.2b	Skin contact:	Prolonged skin contact may cause mild irritation.
4.2c	Eye contact:	May cause temporary eye irritation.
4.2d	Ingestion:	May cause discomfort if swallowed.
4.3	Indication of any immediate medical attention and special treatment needed:	No specific first aid measures noted, but first aid may still be required in case of assidantal exposure inhalation, or incention of this product
	special treatment needed:	in case of accidental exposure, inhalation, or ingestion of this product.  If in doubt, get medical attention promptly!
4.3a	Notes to physician/first responder:	Treat symptomatically. Refer to Sections 5-8 for advice on personal
4.00	rvotes to physician/mot responder.	protective equipment.
	on 5: Firefighting measures	
5.1	Extinguishing media:	Use fire-extinguishing media appropriate for the surrounding materials.
5.1a	Suitable extinguishing media:	Water spray, foam, dry powder, or carbon dioxide.
5.1b	Unsuitable extinguishing media:	None known.
5.2	Special hazards arising from the substance or mixture:	Product is not explosive. No dangerous reactions known under normal conditions of use.
5.2a	Hazardous combustion products:	In case of fire, toxic gases may be formed of carbon monoxide (CO),
J.24	riazardous combustion products.	carbon dioxide (CO2; COx). None under normal conditions.
5.2b	Unusual fire & explosion hazards:	No unusual fire or explosion hazards noted.
5.2c	Protective measures in fire:	Use protective equipment appropriate for surrounding materials.
5.3	Advice for firefighters:	Keep away from heat, hot surfaces, sparks, open flames and other
		ignition sources. No smoking.
5.3a	Special firefighting procedures:	No specific firefighting procedure given.
5.3b	Special protective equipment and precautions for	Wear full protective clothing, including self-contained breathing
	firefighters:	apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open
		flames and other ignition sources. No smoking.
Section	on 6: Accidental release measures	
6.1	Personal precautions, protective equipment, and	Use protective equipment appropriate for surrounding materials.
	emergency procedures:	N
6.1a	General release measures:	No specific emergency measures are required other than good
		laboratory hygiene and safety practices for small spills. Wear suitable
		protective clothing, gloves and eye or face protection. Consult professional emergency personnel if concerned (see Section 8).
6.1b	Advice for non-emergency personnel; personal	No specific emergency measures are required other than good
0.10	precautions, protective equipment and emergency	laboratory hygiene and safety practices. Wear suitable protective
	procedures:	clothing/gloves/eye/face protection to avoid contact with skin, eyes,
	·	and personal clothing; use an approved supplied-air respirator, in case
		of emergency (also refer to Section 8). Remove all sources of ignition.
		Ensure adequate ventilation and control dust/mist. Avoid breathing
		vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable
		protective clothing, gloves and eye or face protection to prevent any
		contamination. Consult professional emergency personnel if
6.1c	Advice for emergency responders; personal	concerned.  Wear suitable protective clothing, gloves and eye or face protection to
0.10	precautions, protective equipment and emergency	avoid contact; use an approved supplied-air respirator, in case of
	procedures:	emergency (also refer to Section 8).

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6.2	Environmental precautions:	Do not allow to enter drains, sewers, or watercourses.
6.3	Methods and materials for containment and	Contain any spills with dikes or absorbent materials to prevent
	clean up:	migration and entry into sewers or water sources. Place in a suitable
		container for disposal in accordance with local waste regulations (see Section 13). Wash spill area thoroughly with plenty of soap and water.
		Avoid contact with skin or inhalation of spillage, dust, or vapour.
6.4	Reference to other sections:	Refer to Sections 8 and 13 for additional information.
<b>VII</b>		The second of th
Section	7: Handling and storage	
7.1	Precautions for safe handling:	Do not handle until all safety precautions have been read and
		understood. Avoid creation of aerosol/mist/dust. Avoid inhalation of
		vapors/mist/dust. Prevent contact with skin and eyes. Use appropriate personal protection equipment (PPE). Thoroughly wash hands and
		contaminated areas with water and soap before leaving the work site.
		Keep away from sources of ignition.
7.1a	Prevent handling of incompatible substances or	Avoid contact with strong acids and strong oxidizers.
	mixtures:	
7.1b	Advice on general occupational hygiene:	Do not eat, drink, or smoke in work areas. Wash hands after use.
		Remove contaminated clothing and protective equipment before entering eating areas. Good personal hygiene is necessary. Follow
		good laboratory hygiene and safety practices.
7.2	Conditions for safe storage, including any	Refer to product label. Store in cool place. Keep container tightly
	incompatibilities:	closed in a dry and well-ventilated place. Containers which are opened
		must be carefully resealed and kept upright to prevent leakage. Avoid
7.0	Charitia and was(a):	spills and release into the environment; keep away from watercourses.
7.3	Specific end use(s):	For research use only. Not for use in diagnostic procedures.
Section	8: Exposure controls/personal protection	
8.1	Control parameters:	
8.1a	Occupational exposure limits, such as chemical	Not available.
	identity, standard, TWA-8 hours (time weighted	
	average), STEL-15 minutes (short term exposure	
	limit), etc.: WEL = Workplace Exposure Limit. Sk = can be absorbed through skin.	
8.1b	Appropriate engineering controls:	
8.1c	Individual protection measures, such as personal	Wear gloves, protective goggles, and lab coat.
	protective equipment:	3 71 3 33 7
8.1d	Safety symbols:	
8.2	Exposure controls:	
8.2a	Process conditions:	Provide eyewash station.
8.2b	Engineering controls:	Ensure that eyewash stations and safety showers are proximal to the
8.2c	Ventilation controls:	workstation location.  Provide adequate ventilation.
8.2d	Reference to other sections:	Refer to Section 5 for additional information.
8.2e	Eye/face protection:	Wear approved chemical safety goggles where eye exposure is
	,	reasonably probable or face shield if risk of splashing.
8.2f	Skin protection:	Wear apron or protective clothing in case of contact.
8.2g	Hand protection:	Use suitable protective gloves if risk of skin contact.
8.2h	Respiratory equipment:	Where risk assessment shows air-purifying respirators are appropriate
		use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering
		controls. If the respirator is the sole means of protection, use a full-face
		supplied air respirator. Use respirators and components tested and
		approved under appropriate government standards such as NIOSH
		(US) or CEN (EU).
8.2i	Other protection:	Wear appropriate clothing to avoid skin contact.
8.2j	Hygiene measures:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift
		and before eating, smoking, and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to
		prevent drying of skin. When using do not eat, drink, or smoke. Wash
		promptly with soap and water if skin becomes contaminated
8.2k	Thermal hazards:	None known under normal conditions of use.
8.21	Environmental exposure controls:	Not determined.

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	n 9: Physical and chemical properties Information on basic physical and chemical	
9.1	properties:	•
9.1a	Appearance (physical state, color, etc.):	Powder, dust.
9.1b	Odor:	No characteristic odor.
9.1c	Odor threshold:	Not determined.
9.1d	pH:	Not determined.
9.1e	Melting point/freezing point (°C):	Not determined.
9.1f	Initial boiling point and boiling range:	Not determined.
9.1g	Flash point (°C):	Not applicable.
9.1h	Evaporation rate:	Not applicable
9.1i	Flammability (solid, gas):	Not determined.
9.1j	Upper/lower flammability or explosive limits:	Not determined.
9.1k	Vapor pressure:	Not applicable.
9.1I	Vapor density (Air =1):	Not applicable.
9.1m	Relative density:	Not determined.
9.1n	Solubility(ies):	Insoluble in water; soluble in organic solvents.
9.10	Partition coefficient (N-octanol/water):	Not determined.
9.1p	Auto-ignition temperature (°C):	Not determined.
9.1q	Decomposition temperature (°C):	Not determined.
9.1r	Viscosity:	Not determined.
9.1s	Explosive properties:	Not determined.
9.18 9.1t	Oxidizing properties:	Not determined.  Not determined.
9.10 <b>9.2</b>	Other information:	None.
9.2a	Other physical or chemical parameters:	None.
9.Za	Other physical of chemical parameters.	INOTIC.
Sectio	n 10: Stability and reactivity	
10.1	Reactivity:	No data available.
10.1	Chemical stability:	Stable under normal temperature conditions.
10.2	Possibility of hazardous reactions:	
10.4	Conditions to avoid:	Hazardous polymerization: no data available.
10.4	Conditions to avoid.	To avoid product degradation, avoid exposure to high temperatures or direct sunlight or light.
10.5	Incompatible materials:	No data available.
10.5	Hazardous decomposition products:	
10.0	nazardous decomposition products:	None under normal conditions.
0		
	n 11: Toxicological information	
11.1	Information on toxicological effects:	
<b>11.1</b> 11.1a	Information on toxicological effects: Name:	SR101-Phe-CMK
<b>11.1</b> 11.1a 11.1b	Information on toxicological effects: Name: Acute toxicity:	Not determined.
11.1 11.1a 11.1b 11.1c	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation:	Not determined. Not determined.
11.1a 11.1b 11.1c 11.1d	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation:	Not determined. Not determined. Not determined.
11.1a 11.1b 11.1c 11.1d 11.1d	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization:	Not determined. Not determined. Not determined. Not determined.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity:	Not determined. Not determined. Not determined. Not determined. Not determined.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity:	Not determined.
11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity:	Not determined.
11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure:	Not determined.
11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure:	Not determined.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard:	Not determined.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1j	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure	Not determined.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k 11.1l	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):	Not determined.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1k 11.1l	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion:	Not determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1k 11.1i	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):	Not determined. In high concentrations, dust may irritate throat and respiratory system
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1k 11.1l	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:	Not determined. In determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k 11.1l	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact:	Not determined. In determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k 11.1l	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact:	Not determined. In determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1k 11.1l	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and	Not determined. In determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1k 11.1l 11.1n 11.1n	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics:	Not determined. In this concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation. No specific symptoms noted.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1k 11.1l 11.1n 11.1n	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic	Not determined. In determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1f 11.1h 11.1i 11.1i 11.1k 11.1n 11.1n 11.1n	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure:	Not determined. In determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation. No specific symptoms noted.  Not determined.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1f 11.1h 11.1i 11.1i 11.1k 11.1n 11.1n 11.1n	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute	Not determined. In this concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation. No specific symptoms noted.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1i 11.1n 11.1n 11.1n 11.1n 11.1n	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates):	Not determined. In this concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation. No specific symptoms noted.  Not determined.  Not determined.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1,1m 11.1n 11.1n 11.1n 11.1n 11.1n	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects:	Not determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation. No specific symptoms noted.  Not determined.  Not determined.
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11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1f 11.1h 11.1i 11.1k 11.1l 11.1n 11.1n 11.1n 11.1n 11.1c 11.1n 11.1c	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information:	Not determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation. No specific symptoms noted.  Not determined.  Not determined.  Not determined.  Not applicable. Not applicable. Not applicable. Not applicable.
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11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1k 11.1l 11.1n 11.1n 11.1n 11.1n 11.1c 11.1n 11.1c	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by International Agency for Research	Not determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation. No specific symptoms noted.  Not determined.  Not determined.  Not determined.  Not applicable. Not applicable. Not applicable. Not applicable.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f 11.1f 11.1h 11.1i 11.1h 11.1n 11.1n 11.1n 11.1n 11.1n 11.1c 11.1t	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by International Agency for Research on Cancer (IARC):	Not determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation. No specific symptoms noted.  Not determined. Not determined. Not determined. Not applicable. Not applicable. Not classified. Not classified.
11.1 11.1a 11.1b 11.1c 11.1d 11.1e 11.1f	Information on toxicological effects:  Name: Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by OSHA 13:	Not determined. May enter by skin and/or eye contact; inhalation of vapors/mist/dust.  May cause discomfort if swallowed. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin. Spray and dust in the eyes may cause irritation. No specific symptoms noted.  Not determined.  Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not classified.

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Section	n 12: Ecological information				
12.1	Toxicity:				
12.1a	Name:	SR101-Phe-CMK.			
12.1b	Ecotoxicity (aquatic and terrestrial, where available):	Not determined.			
12.2	Persistence and degradability:	There are no data on the degradability of this product.			
12.3	Bioaccumulative potential:	No data available on bioaccumulation.			
12.4	Mobility in soil:	No data available.			
12.5	Results of PBT and vPvB assessment:	Not determined.			
12.6	Other adverse effects:	No data available.			
Continu	Out the 40 Photos I have the state of				
13.1	n 13: Disposal considerations Waste treatment methods:	When handling waste, consideration should be made to the safety			
13.1	waste treatment methods.	precautions applying to handling of the product.			
13.1a	Description of waste residues and information on	Dispose of waste and residues in accordance with local authority			
10.14	their safe handling and methods of disposal,	requirements. For the safety of persons conducting disposal, recycling			
	including the disposal of any contaminated	or reclamation activities, please refer to the information in Section 8			
	packaging:	(exposure controls and personal protection) of the SDS.			
	14: Transport information				
14.1	UN number:	Not applicable.			
14.2	UN proper shipping name:	Not applicable.			
14.3	Transport hazard class(es):	Not applicable.			
14.4 14.5	Packing group: Environmental hazards:	Not applicable.			
14.5a	Is it environmentally dangerous according to UN	No.			
14.Ja	Model Regulations (IMDG Code, ADR, RID, and	140.			
	ADN)?:				
14.5b	Is it a marine pollutant according to the IMDG	No.			
	code?:				
14.6	Special precautions for user:	None known.			
14.7	Transport in bulk according to Annex II of	Not applicable.			
	MARPOL and the IBC code:				
14.7a	Other information:	The product is not considered a dangerous good for transport.			
14.7b	Classification for other modes of transport:	Contact supplier.			
Section	15: Regulatory information				
	15: Regulatory information				
Section 15.1	Safety, health and environmental				
	15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture:				
	Safety, health and environmental regulations/legislation specific for the substance	None known.			
<b>15.1</b> 15.1a	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:	None known.			
15.1a 15.1b	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):	Not listed.			
15.1a 15.1a 15.1b 15.1c	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:	Not listed. Not listed.			
15.1a 15.1a 15.1b 15.1c 15.1d	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:	Not listed. Not listed. Not listed.			
15.1a 15.1b 15.1c 15.1d 15.1d 15.1e	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:	Not listed. Not listed. Not listed. Not listed. Not listed.			
15.1a 15.1b 15.1c 15.1d 15.1e 15.1f	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:	Not listed. Not listed. Not listed.			
15.1a 15.1b 15.1c 15.1d 15.1e 15.1f 15.1g	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:	Not listed. Not listed. Not listed. Not listed. Not listed. Not listed			
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15.1a  15.1a  15.1b  15.1c  15.1d  15.1e  15.1f  15.1g  15.1h  15.1i	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:	Not listed.			
15.1a 15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:	Not listed. Not listed. Not listed. Not listed. Not listed. Not listed Not listed			
15.1a  15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1j	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:	Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.			
15.1a  15.1a  15.1b  15.1c  15.1d  15.1e  15.1f  15.1g  15.1h  15.1i	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:	Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of			
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15.1a  15.1a  15.1b  15.1c  15.1d  15.1e  15.1f  15.1g  15.1h  15.1i  15.1i  15.1s  15.1c  15	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:  EU legislation references:  Chemical safety assessment:  Other regulatory information:	Not listed. Not listed. Not listed. Not listed. Not listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.  Not required.			
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15.1a  15.1a  15.1b  15.1c  15.1d  15.1e  15.1f  15.1j  15.1h  15.1i  15.1i  15.1s  15.1c	Safety, health and environmental regulations/legislation specific for the substance or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:  EU legislation references:  Chemical safety assessment:  Other regulatory information:	Not listed. Not listed. Not listed. Not listed. Not listed. Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.  Not required. None.			

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16.1d		es made to the previous version of the SDS:	Reviewed and updated document control numbers.
16.1e		end to abbreviations and acronyms used in	ACGIH American Conference of Governmental Industrial Hygienists.
	the SD	S:	ADN European Provisions concerning the International Carriage of
			Dangerous Goods by Inland Waterway.
			ADR The European Agreement concerning the International Carriage
			of Dangerous Goods by Road.
			ATE Acute Toxicity Estimate.
			BCF Bio Concentration Factor.
			CAS Chemical Abstracts Service.
			CLP Classification, Labelling and Packaging.
			CMR Carcinogen, Mutagen or Reproductive toxicant.
			COD Chemical Oxygen Demand.
			EC European Commission.
			EC50 Half maximal effective concentration.
			EH40 Resource containing the list of workplace exposure limits for use
			with the Control of Substances Hazardous to Health Regulations.
			EINECS European Inventory of Existing Commercial chemical
			Substances.
			ELINCS European List of Notified Chemical Substances.
			EU European Union.
			GHS Globally Harmonized System of Classification and Labelling of
			Chemicals.
			H Statement GHS Hazard statement.
			IATA International Air Transport Association.
			IBC Intermediate Bulk Container.
			IC50 Half maximal inhibitory concentration.
			IMDG International Maritime Dangerous Goods.  LC50 Median lethal concentration.
			LD50 Median lethal dose.
			LogPow logarithm of the octanol/water partition coefficient.
			MARPOL 73/78 International Convention for the Prevention of
			Pollution From Ships, 1973 as modified by the Protocol of 1978.
			OEL Occupational Exposure Limit.
			OSHA Occupational Safety and Health Administration (USA).
			PBT Persistent, Bioaccumulative, and Toxic.
			PEL Permissible Exposure Limit.
			RID The Regulations concerning the International Carriage of
			Dangerous Goods by Rail.
			SADT Self-Accelerating Decomposition Temperature.
			SARA Superfund Amendments and Reauthorization Act.
			SCBA Self-Contained Breathing Apparatus.
			SDS Safety Data Sheet.
			STOT Specific Target Organ Toxicity.
			STOT-RE Specific Target Organ Toxicity - Repeated Exposure.
			STOT-SE Specific Target Organ Toxicity - Single Exposure.
			UN United Nations.
			USA United States of America.
			vPvB very Persistent very bioaccumulative.
16.1f		t of hazard statements and/or precautionary	All statements were written out in full.
DISCL 4		ents not written out in full elsewhere:	fig material decignated and may not be valid for such metarial was
DISCLA	AIIVIEK:		fic material designated and may not be valid for such material used
			or in any process. Such information is, to the best of the company's
			ole as of the date indicated. However, no warranty guarantee or eliability, or completeness. It is the user's responsibility to satisfy

representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**END OF SDS** 



# SAFETY DATA SHEET (SDS) according to Regulation (EC) No. 830/2015 amending 1907/2006

1.1	n 1: Identification of the substance/mixture and of th Product identifier:	10X Cellular Wash Buffer	
1.1a	Other means of identification:	10% Condidi Wash Bansi	
1.1b	Alternative product name(s)/ synonyms:	10X CWB, CWB, Cellular Wash Buffer	
1.1c	Product number/Catalog #(s):	6164, 6165	
1.1d	Internal identification:	10X CWB, CWB, Cellular Wash Buffer	
1.2	Relevant identified uses of the substance or	For research use only. Not for use in diagnostic procedures.	
	mixture and uses advised against:	,, ,, ,	
1.2a	Brief description of what the substance or mixture is intended to do:	A buffered diluent for use in research laboratory techniques.	
1.3	Details of the supplier of the SDS:		
1.3a	Name:	ImmunoChemistry Technologies, LLC (ICT)	
1.3b	Address:	9401 James Avenue South, Suite 155	
1.3c	City, State, Zip, Country	Bloomington, MN 55431-2500 USA	
1.3d	Phone number:	1-800-829-3194 and 952-888-8788	
1.3e	Fax number:	952-888-8988	
1.3f	Website:	www.immunochemistry.com	
1.3g	Email:	help@immunochemistry.com	
1.3h 1.4	Contact person at ICT: Emergency telephone number:	Quality Documentation Department ICT: 1-800-829-3194 (USA & Canada) or 952-888-8788 world wide; ICT hours are 9 am-5 pm central time USA, Monday through Friday (excluding holidays). Chemtrec 24-hour access within USA and Canada: 1-800-424-9300 or +1 703-527-3887. Collect calls accepted.	
	n 2: Hazards identification		
2.1	Classification of the substance or mixture:	Mixture	
2.1a 2.1b	Product is a:	Mixture.  Does not meet the criteria for classification.	
	Classification according to (EC) No. 1272/2008 {CLP}:		
2.1c	The most important adverse physiochemical, human health, and environmental effects:	Prolonged skin contact may cause redness and irritation. Refer to Sections 4, 9-12.	
2.2	Label elements:	None.	
2.2a	GHS label elements, including precautionary statements:		
2.2b	Contains:	Contains ≤0.1% sodium azide.	
2.2c	Labeling in accordance with (EC) No. 1272/2008:		
2.2d	Hazard Pictograms (Hazard Symbols):	None.	
2.2e	Signal word:	None.	
2.2f	Hazard statements:	None.	
2.2g	Precautionary statements:	None.	
2.2h	Supplementary precaution statements:	None.	
2.3	Other hazards:	No additional information available.	
2.3a	Does the chemical meet the criteria for PBT or vPvB?	Not applicable.	
2.3b	Other hazards which do not result in classification:	Contains sodium azide (NaN₃, CAS #26628-22-8; EC #247-852-1) a ≤0.1%, sodium chloride (NaCl, salt), and phosphates which are belo the threshold for hazard classification, but may cause redness and irritation after prolonged exposure.	
Section	on 3: Composition/information on ingredients		
3.1	Substance:	Item is a mixture therefore Section 3.1 is not applicable; see Section 3.2.	
3.2	Mixture: The chemical identity and concentration or concentration ranges of all ingredients which are hazardous and are present above their cut-off levels:	Item is a mixture.	
	3.2a Chemical identity:	No ingredients identified for reporting in this section.	
3.2u	Other information on the mixture:	None.	
	n 4: First aid measures		
4.1	Description of first aid measures:	If concerned, get medical attention/advice and provide physician with SDS information. Wash contaminated clothing before re-use. Never give anything to an unconscious person.	

10X Cellular Wash Buffer SDS; Doc# F17-6164-2-D; Effective: 2017-05-19; Supersedes: F17-6164-2-C; Page 2 of 6

	10X Cellular Wash Buffer SDS; Doc# F17-6164-2-D; E	ffective: 2017-05-19; Supersedes: F17-6164-2-C; Page 2 of 6
4.1a	Inhalation:	Remove to fresh air and keep at rest in a comfortable position for
		breathing. If not breathing, give artificial respiration. Rinse nose and
		mouth with water. Get medical attention if any discomfort continues.
4.1b	Skin contact:	Wash skin thoroughly with soap and water for several minutes;
7.10	OKIT COTILACI.	continue to rinse for at least 15 minutes. Remove any contaminated
		clothing and shoes and wash thoroughly before reuse. Get medical
		attention if any discomfort continues.
4.1c	Eye contact:	Promptly wash eyes with plenty of water while lifting the eyelids. Make
	<b>,</b>	sure to remove any contact lenses from the eyes before rinsing.
		Continue to rinse for at least 15 minutes. Get medical attention if any
		discomfort continues.
4.1d	Ingestion:	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK
		FLUIDS! Rinse mouth thoroughly. Do not induce vomiting without
		advice from poison control center or medical professional. Get medical
		attention if any discomfort continues.
4.0	Martine and and assessment and affects that have	
4.2	Most important symptoms and effects, both acute	Contains sodium azide, sodium chloride, and phosphates which are
	and delayed:	below the threshold for hazard classification, but may cause redness
		and irritation after prolonged exposure.
4.2a	Inhalation:	May cause coughing or mild irritation.
4.2b	Skin contact:	Prolonged skin contact may cause redness and mild irritation.
4.2c	Eye contact:	May cause temporary eye irritation.
4.2d	Ingestion:	May cause discomfort if swallowed.
4.3	Indication of any immediate medical attention and	No specific first aid measures noted, but first aid may still be required
	special treatment needed:	in case of accidental exposure, inhalation, or ingestion of this product.
	Special meaning moderal	If in doubt, get medical attention promptly!
4.0-	Nata ta alemaiaia a /finat na angan dana	
4.3a	Notes to physician/first responder:	Treat symptomatically. Refer to Sections 5-8 for advice on personal
		protective equipment.
Section	n 5: Firefighting measures	
5.1	Extinguishing media:	This product is not flammable. Use fire-extinguishing media
5.1	Extinguishing media.	appropriate for the surrounding materials.
	0 " 11 " " 11 "	
5.1a	Suitable extinguishing media:	Water spray, foam, dry powder, or carbon dioxide.
5.1b	Unsuitable extinguishing media:	None known.
5.2	Special hazards arising from the substance or	This product is not flammable. Product is not explosive. No dangerous
	miytura:	reactions known under normal conditions of use
F 20	mixture:	reactions known under normal conditions of use.
5.2a	Hazardous combustion products:	None under normal conditions.
5.2b	Hazardous combustion products: Unusual fire & explosion hazards:	None under normal conditions.  No unusual fire or explosion hazards noted.
	Hazardous combustion products:	None under normal conditions.
5.2b 5.2c	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire:	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.
5.2b	Hazardous combustion products: Unusual fire & explosion hazards:	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other
5.2b 5.2c <b>5.3</b>	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
5.2b 5.2c <b>5.3</b> 5.3a	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures:	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.
5.2b 5.2c <b>5.3</b>	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
5.2b 5.2c <b>5.3</b> 5.3a	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures:	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.
5.2b 5.2c <b>5.3</b> 5.3a	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards
5.2b 5.2c <b>5.3</b> 5.3a	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open
5.2b 5.2c <b>5.3</b> 5.3a	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards
5.2b 5.2c 5.3 5.3a 5.3b	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open
5.2b 5.2c 5.3 5.3a 5.3b	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  n 6: Accidental release measures	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
5.2b 5.2c 5.3 5.3a 5.3b	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open
5.2b 5.2c 5.3 5.3a 5.3b	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  n 6: Accidental release measures Personal precautions, protective equipment, and	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
5.2b 5.2c 5.3 5.3a 5.3b	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  n 6: Accidental release measures Personal precautions, protective equipment, and emergency procedures:	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Use protective equipment appropriate for surrounding materials.
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5.2b 5.2c 5.3 5.3a 5.3b  Section 6.1 6.1a	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  n 6: Accidental release measures Personal precautions, protective equipment, and emergency procedures: General release measures:  Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures:  Advice for emergency responders; personal precautions, protective equipment and emergency procedures:  Environmental precautions: Methods and materials for containment and	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Use protective equipment appropriate for surrounding materials.  No specific emergency measures are required other than good laboratory hygiene and safety practices for small spills. Wear suitable protective clothing, gloves and eye or face protection. Consult professional emergency personnel if concerned (see Section 8).  No specific emergency measures are required other than good laboratory hygiene and safety practices. Wear suitable protective clothing/gloves/eye/face protection to avoid contact with skin, eyes, and personal clothing; use an approved supplied-air respirator, in case of emergency (also refer to Section 8). Remove all sources of ignition. Ensure adequate ventilation and control dust/mist. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel if concerned.  Wear suitable protective clothing, gloves and eye or face protection to avoid contact; use an approved supplied-air respirator, in case of emergency (also refer to Section 8).  Do not allow to enter drains, sewers, or watercourses.  Contain any spills with dikes or absorbent materials to prevent
5.2b 5.2c 5.3 5.3a 5.3b  Section 6.1 6.1a  6.1c	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  n 6: Accidental release measures  Personal precautions, protective equipment, and emergency procedures: General release measures:  Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures:  Advice for emergency responders; personal precautions, protective equipment and emergency procedures:  Environmental precautions:	None under normal conditions. No unusual fire or explosion hazards noted. Use protective equipment appropriate for surrounding materials. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. No specific firefighting procedure given. Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Use protective equipment appropriate for surrounding materials.  No specific emergency measures are required other than good laboratory hygiene and safety practices for small spills. Wear suitable protective clothing, gloves and eye or face protection. Consult professional emergency personnel if concerned (see Section 8). No specific emergency measures are required other than good laboratory hygiene and safety practices. Wear suitable protective clothing/gloves/eye/face protection to avoid contact with skin, eyes, and personal clothing; use an approved supplied-air respirator, in case of emergency (also refer to Section 8). Remove all sources of ignition. Ensure adequate ventilation and control dust/mist. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel if concerned.  Wear suitable protective clothing, gloves and eye or face protection to avoid contact; use an approved supplied-air respirator, in case of emergency (also refer to Section 8).  Do not allow to enter drains, sewers, or watercourses.  Contain any spills with dikes or absorbent materials to prevent migration and entry into sewers or water sources. Place in a suitable
5.2b 5.2c 5.3 5.3a 5.3b Section 6.1 6.1a	Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  n 6: Accidental release measures Personal precautions, protective equipment, and emergency procedures: General release measures:  Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures:  Advice for emergency responders; personal precautions, protective equipment and emergency procedures:  Environmental precautions: Methods and materials for containment and	None under normal conditions.  No unusual fire or explosion hazards noted.  Use protective equipment appropriate for surrounding materials.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Use protective equipment appropriate for surrounding materials.  No specific emergency measures are required other than good laboratory hygiene and safety practices for small spills. Wear suitable protective clothing, gloves and eye or face protection. Consult professional emergency personnel if concerned (see Section 8).  No specific emergency measures are required other than good laboratory hygiene and safety practices. Wear suitable protective clothing/gloves/eye/face protection to avoid contact with skin, eyes, and personal clothing; use an approved supplied-air respirator, in case of emergency (also refer to Section 8). Remove all sources of ignition. Ensure adequate ventilation and control dust/mist. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel if concerned.  Wear suitable protective clothing, gloves and eye or face protection to avoid contact; use an approved supplied-air respirator, in case of emergency (also refer to Section 8).  Do not allow to enter drains, sewers, or watercourses.  Contain any spills with dikes or absorbent materials to prevent

10X Cellular Wash Buffer SDS; Doc# F17-6164-2-D; Effective: 2017-05-19; Supersedes: F17-6164-2-C; Page 3 of 6 Section 13). Wash spill area thoroughly with plenty of soap and water. Avoid contact with skin or inhalation of spillage, dust, or vapour. 6.4 Refer to Sections 8 and 13 for additional information. Reference to other sections: Section 7: Handling and storage Precautions for safe handling: Do not handle until all safety precautions have been read and 7.1 understood. Avoid creation of aerosol/mist/dust. Avoid inhalation of vapors/mist/dust. Prevent contact with skin and eyes. Use appropriate personal protection equipment (PPE). Thoroughly wash hands and contaminated areas with water and soap before leaving the work site. Keep away from sources of ignition. 7.1a Avoid contact with halogenated hydrocarbons, strong acids, strong Prevent handling of incompatible substances or mixtures: oxidizers, and metals. 7.1b Advice on general occupational hygiene: Do not eat, drink, or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Good personal hygiene is necessary. Follow good laboratory hygiene and safety practices. 7.2 Conditions for safe storage, including any Store in cool place. Keep container tightly closed in a dry and wellincompatibilities: ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid spills and release into the environment; keep away from watercourses. 7.3 Specific end use(s): For research use only. Not for use in diagnostic procedures. Section 8: Exposure controls/personal protection **Control parameters:** 8.1 8.1a Occupational exposure limits, such as chemical Not available. identity, standard, TWA-8 hours (time weighted average), STEL-15 minutes (short term exposure limit), etc.: WEL = Workplace Exposure Limit. Sk = can be absorbed through skin. 8.1b Appropriate engineering controls: 8.1c Individual protection measures, such as personal Wear gloves. Wear protective goggles. protective equipment: 8.1d Safety symbols: 8.2 **Exposure controls:** 8.2a Process conditions: Provide eyewash station. 8.2b Engineering controls: Ensure that evewash stations and safety showers are proximal to the workstation location. 8.2c Ventilation controls: Provide adequate ventilation. 8.2d Reference to other sections: Refer to Section 5 for additional information. Wear approved chemical safety goggles where eye exposure is 8.2e Eye/face protection: reasonably probable or face shield if risk of splashing. 8.2f Skin protection: Wear apron or protective clothing in case of contact. Use suitable protective gloves if risk of skin contact. 8.2g Hand protection: 8.2h Respiratory equipment: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Wear appropriate clothing to avoid skin contact. 8.2i Other protection: 8.2j DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift Hygiene measures: and before eating, smoking, and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink, or smoke. Wash promptly with soap and water if skin becomes contaminated 8.2k Thermal hazards: None known under normal conditions of use. Environmental exposure controls: 8.21 Not determined. Section 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties: 9.1a Appearance (physical state, color, etc.): Liquid; colorless. 9.1b No characteristic odor. Odor:

Not determined.

Odor threshold:

9.1c

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9.1d	pH:	6.7-7.1
9.1e	Melting point/freezing point (°C):	Not determined.
9.1f	Initial boiling point and boiling range:	<100°C @ 760 mm Hg.
9.1g	Flash point (°C):	Not applicable.
9.1h	Evaporation rate:	Not determined.
9.1i	Flammability (solid, gas):	Not applicable.
9.1j	Upper/lower flammability or explosive limits:	Not applicable.
9.1k	Vapor pressure:	Not determined.
9.11	Vapor density (Air =1):	Not determined.
9.1m	Relative density:	Not determined.
9.1n	Solubility(ies):	Soluble in water.
9.10	Partition coefficient (N-octanol/water):	Not determined.
9.1p	Auto-ignition temperature (°C):	Not determined.
9.1q	Decomposition temperature (°C):	Not determined.
9.1r	Viscosity:	Not determined.
9.1s	Explosive properties:	Not determined.
9.1t	Oxidizing properties:	Not determined.
9.2	Other information:	None.
9.2a	Other physical or chemical parameters:	None.
Section	n 10: Stability and reactivity	
10.1	Reactivity:	No data available.
10.2	Chemical stability:	Stable under normal temperature conditions.
10.3	Possibility of hazardous reactions:	Hazardous polymerization: will not polymerize.
10.3	Conditions to avoid:	To avoid product degradation, avoid exposure to high temperatures or
10.4	Conditions to avoid.	
40 F	Incompatible metarials:	direct sunlight or light.
10.5	Incompatible materials:	Avoid contact with halogenated hydrocarbons, strong acids, strong
		oxidizers, and metals.
10.6	Hazardous decomposition products:	None under normal conditions.
Section	n 11: Toxicological information	
11.1	Information on toxicological effects:	
11.1a	Name:	10X Cellular Wash Buffer
11.1b	Acute toxicity:	Not determined.
11.1c	Skin corrosion/irritation:	Not determined.
11.1d		
	Serious eye damage/irritation:	Not determined.
11.1e	Respiratory or skin sensitization:	Not determined.
11.1f	Germ cell mutagenicity:	Not determined.
11.1g	Carcinogenicity:	Not determined.
11.1h	Reproductive toxicity:	Not determined.
11.1i	STOT-single exposure:	Not determined.
11.1j	STOT-repeated exposure:	Not determined.
11.1k	Aspiration hazard:	Not determined.
11.11	Information on the likely routes of exposure	May enter by skin and/or eye contact; inhalation of vapors/mist/dust.
11.11		ivial enter by skin and/or eye contact, initialation of vapors/mistroust.
44.4	(inhalation, ingestion, skin and eye contact):	AA P C. (P H I
11.1m	Ingestion:	May cause discomfort if swallowed.
11.1n	Inhalation:	In high concentrations, vapors may irritate throat and respiratory
		system and cause coughing.
11.1o	Skin contact:	Liquid may irritate skin and cause redness.
11.1p	Eye contact:	Spray and vapor in the eyes may cause irritation and smarting.
11.1q	Symptoms related to the physical, chemical and	No specific symptoms noted.
٠٩	toxicological characteristics:	p
11.1r	Delayed and immediate effects as well as chronic	Not determined.
1 1.11		Not determined.
111-	effects from short and long term exposure:	Not determined
11.1s	Numerical measures of toxicity (such as acute	Not determined.
4	toxicity estimates):	
11.1t	Interactive effects:	Not determined.
11.1u	Absence of specific data:	Not applicable.
11.1v	Mixtures:	Item is a mixture.
11.1w	Mixture vs. substance information:	See Section 3 for any substances in the mixture.
11.1x	Classification by National Toxicity Program (NTP):	Not classified.
11.1x	Classification by International Agency for Research	Not classified.
11.19		INULUIASSIIICU.
14.4	on Cancer (IARC):	Net alongified
11.1z	Classification by OSHA 13:	Not classified.
11.1ab	Other information:	None.
Section	n 12: Ecological information	
12.1	Toxicity:	
12.1a	Name:	10X Cellular Wash Buffer.
12.1b	Ecotoxicity (aquatic and terrestrial, where available):	No data available.

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12.2	Persistence and degradability:	There are no data on the degradability of this product.
12.3	Bioaccumulative potential:	No data available on bioaccumulation.
12.4	Mobility in soil:	The product is soluble in water.
12.5	Results of PBT and vPvB assessment:	Not determined.
12.6	Other adverse effects:	The product contains a substance (sodium azide ≤0.1%) that may
	Gillor davoros oriostor	cause long term adverse effects in the aquatic environment. However,
		at the concentrations present, this product does not need to be
		classified as hazardous for the environment, and the effects are not
		expected to be significant.
		onpositor to bo significant.
	1 13: Disposal considerations	
13.1	Waste treatment methods:	When handling waste, conisderation should be made to the safety precautions applying to handling of the product.
13.1a	Description of waste residues and information on	Dispose of waste and residues in accordance with local authority
	their safe handling and methods of disposal,	requirements. For the safety of persons conducting disposal, recycling
	including the disposal of any contaminated	or reclamation activities, please refer to the information in Section 8
	packaging:	(exposure controls and personal protection) of the SDS.
Section	14: Transport information	
14.1	UN number:	Not applicable.
14.2	UN proper shipping name:	Not applicable.
14.3	Transport hazard class(es):	Not applicable.
14.4	Packing group:	Not applicable.
14.5	Environmental hazards:	The product contains a substance (sodium azide ≤0.1%) that may
		cause long term adverse effects in the aquatic environment. However,
		at the concentrations present, this product does not need to be
		classified as hazardous for the environment, and the effects are not
		expected to be significant.
14.5a	Is it environmentally dangerous according to UN	No.
	Model Regulations (IMDG Code, ADR, RID, and	
	ADN)?:	
14.5b	Is it a marine pollutant according to the IMDG	No.
	code?:	N
14.6	Special precautions for user:	None known.
14.7	Transport in bulk according to Annex II of	Not applicable.
1170	MARPOL and the IBC code:	The weed sat is not considered a demonstrate good for transport
14.7a 14.7b	Other information: Classification for other modes of transport:	The product is not considered a dangerous good for transport.  Contact supplier.
14.70	Classification for other modes of transport.	Contact supplier.
Section	n 15: Regulatory information	
15.1	Safety, health and environmental	
	regulations/legislation specific for the substance	
	regulations/legislation specific for the substance or mixture:	
15.1a	or mixture:  Regional safety, health and environmental	
	or mixture:  Regional safety, health and environmental regulations specific for the product in question:	
15.1b	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):	. Sodium azide (CAS # 26628-22-8) is listed under 302, 304, 313.
15.1b 15.1c	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:	Sodium azide (CAS # 26628-22-8) is listed.
15.1b 15.1c 15.1d	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:	Sodium azide (CAS # 26628-22-8) is listed. Sodium azide (CAS # 26628-22-8) is listed.
15.1b 15.1c 15.1d 15.1e	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:	Sodium azide (CAS # 26628-22-8) is listed. Sodium azide (CAS # 26628-22-8) is listed. Sodium azide (CAS # 26628-22-8) is listed.
15.1b 15.1c 15.1d 15.1e 15.1f	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:	Sodium azide (CAS # 26628-22-8) is listed. Sodium azide (CAS # 26628-22-8) is listed.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:	Sodium azide (CAS # 26628-22-8) is listed. Sodium azide (CAS # 26628-22-8) is listed. Sodium azide (CAS # 26628-22-8) is listed. Not listed.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1j	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1i 15.1j	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1j	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1j	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1j	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1j	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation,
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1j	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1i 15.1j	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and
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15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1i 15.1j	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:  EU legislation references:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1i 15.1s 15.1k	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:  EU legislation references:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.  Not required.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1i 15.1j	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:  EU legislation references:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
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15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1i 15.1k 15.1l	or mixture:  Regional safety, health and environmental regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:  Approved code of practice:  Guidance notes:  EU legislation references:	Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Sodium azide (CAS # 26628-22-8) is listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.  Not required.

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40.4-		Effective: 2017-05-19; Supersedes: F17-6164-2-C; Page 6 of 6
16.1a	Date of revision:	2017-05-19
16.1b 16.1c 16.1d 16.1e	Supersedes SDS number and revision: Changes made to the previous version of the SDS: Key/legend to abbreviations and acronyms used in the SDS:	F17-6164-2-D F17-6164-2-C Reviewed and updated document control numbers.  ACGIH American Conference of Governmental Industrial Hygienists. ADN European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway. ADR The European Agreement concerning the International Carriage of Dangerous Goods by Road. ATE Acute Toxicity Estimate. BCF Bio Concentration Factor. CAS Chemical Abstracts Service. CLP Classification, Labelling and Packaging. CMR Carcinogen, Mutagen or Reproductive toxicant. COD Chemical Oxygen Demand. EC European Commission. EC50 Half maximal effective concentration. EH40 Resource containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations. EINECS European Inventory of Existing Commercial chemical Substances. ELINCS European List of Notified Chemical Substances. EU European Union. GHS Globally Harmonized System of Classification and Labelling of Chemicals. H Statement GHS Hazard statement. IATA International Air Transport Association. IBC Intermediate Bulk Container. IC50 Half maximal inhibitory concentration. IMDG International Maritime Dangerous Goods. LC50 Median lethal concentration. LD50 Median lethal concentration. LD50 Median lethal concentration. DD50 Half maximal Safety and Health Administration (USA). PBT Persistent, Bioaccumulative, and Toxic. PEL Permissible Exposure Limit. RID The Regulations concerning the International Carriage of Dangerous Goods by Rail. SADT Self-Accelerating Decomposition Temperature. SARA Superfund Amendments and Reauthorization Act. SCBA Self-Contained Breathing Apparatus. SDS Safety Data Sheet. STOT-RE Specific Target Organ Toxicity. STOT-RE Specific Target Organ Toxicity.
		STOT-SE Specific Target Organ Toxicity - Single Exposure.
		UN United Nations.
		USA United States of America.
		vPvB very Persistent very bioaccumulative.
16.1f	Full text of hazard statements and/or precautionary	All statements were written out in full.
	statements not written out in full elsewhere:	
DISCLA		fic material designated and may not be valid for such material used

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**END OF SDS** 



## SAFETY DATA SHEET (SDS) according to Regulation (EC) No. 830/2015 amending 1907/2006

1.1	n 1: Identification of the substance/mixtu Product identifier:		Fixative
1.1a	Other means of identification:  Alternative product name(s)/ synonyms:  Product number/Catalog #(s):		
1.1b			Fixative, Fix
1.1c			536, 636
1.1d	Internal identification:  Relevant identified uses of the substance or mixture and uses advised against:  Brief description of what the substance or mixture is intended to do:  Details of the supplier of the SDS:  Name:		Fixative, Fix
1.2			For research use only. Not for use in diagnostic procedures.
1.2a			Laboratory reagent to preserve cells.
<b>1.3</b> 1.3a			. ImmunoChemistry Technologies, LLC (ICT)
1.3b	Address:		9401 James Avenue South, Suite 155
1.3c	City, State, Zip, Country		Bloomington, MN 55431-2500 USA
1.3d	Phone number:		1-800-829-3194 and 952-888-8788
1.3e	Fax number:		952-888-8988
1.3f	Website:		www.immunochemistry.com
1.3g	Email:		help@immunochemistry.com
1.3h	Contact person at ICT:		Quality Documentation Department
1.4	Emergency telephone number:		ICT: 1-800-829-3194 (USA & Canada) or 952-888-8788 world wide; ICT hours are 9 am-5 pm central time USA, Monday through Friday (excluding holidays). Chemtrec 24-hour access within USA and Canada: 1-800-424-9300 or +1 703-527-3887. Collect calls accepted.
Sectio	n 2: Hazards identification		
2.1	Classification of the substance or		
	mixture:		
2.1a 2.1b	Product is a: Classification according to (EC) No.	Mixture.	Liquids, (Category 4) (USA Only).
2.1c	1272/2008 {CLP}:  H302 Acute H312 Acute H315 Skin I H319 Eye II H317 Skin s H341 Germ H350 Carci H371 Speci H371 Speci H335 Speci The most important adverse physiochemical, human health, and environmental effects:		toxicity, Oral (Category 4). toxicity, Dermal (Category 4). ritation, (Category 2). ritation, (Category 2). ensitisation (Category 1). cell mutagenicity (Category 2). logenicity (Category 1B). ic Target Organ Toxicity - Single Exposure (Category 2). ic Target Organ Toxicity - Single Exposure (Category 3) - Respiratory Tract. ct with liquid may cause immediate harm to skin, mouth, and eyes. Refer to 9-12.
2.2a	Label elements: GHS label elements, including	•	
u	precautionary statements:		
2.2b	Contains:	Formaldehyo	de <10%; and Methanol <5%.
2.2c	Labeling in accordance with (EC) No. 1272/2008:		·
2.2d	Hazard Pictograms (Hazard Symbols):	grams (Hazard Symbols):  GHS07 Exclamation mark. GHS08 Health hazard.	
2.2e	Signal word:	Danger.	
2.2f	Hazard statements:	H227 Combustible liquids. H302 Harmful if swallowed. H312 Harmful if in contact with skin. H319 Causes serious eye irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H350 May cause cancer. H341 Suspected of causing genetic defects. H371 May cause damage to organs. H335 May cause respiratory irritation.	
2.2g	g Precautionary statements: H335 May cause respir P201 Obtain special ins P280 Wear protective g		special instructions before use.  protective gloves/ protective clothing/ eye protection/ face protection.  2 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if

Fixative SDS; Doc#F17-536-2-D; Effective: 5/12/17; Supersedes: F17-536-2-C; Page 2 of 8

	Fixative SL	15; DOC#F 17-53			es: F17-536-2-C; Page 2 of 8 erned: Get medical advice/ attention.
					ash occurs: Get medical advice/ attention.
2.2h	Supplementary precaution s	tatements:			when using this product.
	Cappionientary procaution of	idiomonio.		breathing mist/vapors	
					g should not be allowed out of the workplace.
				poison center or doct	
				ic treatment (see on t	
			P322 Specifi	ic measures (see on t	this label).
			P330 Rinse	mouth.	•
				off contaminated cloth	
			P363 Wash	contaminated clothing	g before reuse.
					ners in accordance with local regulations.
					plenty of soap and water.
					ictim to fresh air and keep at rest in a position
				for breathing.	
					se cautiously with water for several minutes. Remove
2.2	Other hererde.		contact tense		sy to do. Continue rinsing.
<b>2.3</b> 2.3a	Other hazards:  Does the chemical meet the criteria for PBT or vPvB?			No additional inform	mation available.
2.3b	Other hazards which do not			Not applicable.  Not known.	
2.30	Other hazards which do not	result iii ciassiii	callon.	NOU KHOWH.	
Section	n 3: Composition/informatio	n on ingredien	nte		
3.1	Substance:	on mgreater		Item is a mixture th	nerefore Section 3.1 is not applicable; see Section 3.2.
3.2	Mixture:			Item is a mixture.	istation of the applicable, dec decitor of the
	The chemical identity and co	ncentration or o	concentration	is is a minute of	
	ranges of all ingredients whi				
	present above their cut-off le	evels:			
	3.2a Chemical identity:			Formaldehyde	
	3.2b Common name, synony	/ms, etc.:		CH <sub>2</sub> O; Index# 605-	-001-00-5
	3.2c CAS number and			3.2e %	3.2f Classification according to (EC) No. 1272/2008
	other unique identifiers:	3.2d EC		Concentration:	<u>{CLP}:</u>
	50-00-0	200-0	001-8	<10%	H301 Toxic if swallowed. H311 Toxic in contact with
					skin. H331 Toxic if inhaled. Acute Tox. 3.
					H314 Causes severe skin burns and eye damage.
					Skin Corr. 1B.
					H318 Causes serious eye damage. Eye Dam. 1.
					H317 May cause an allergic skin reaction. Skin Sens.
					1.
					H341 Suspected of causing genetic defects. Muta. 2.
					H350 May cause cancer. Carc. 1B. H335 May cause respiratory irritation. STOT SE 3.
					H333 May Cause respiratory irritation. 3101 3E 3.
3.2g	Other ingredient:				
0.29	3.2h Chemical identity:			Methanol	
	3.2i Common name, synony	ms. etc.:		CH <sub>4</sub> O: Index # 603	3-001-00-X
	3.2j CAS number and	, , , , , , , , , , , , , , , , , , , ,		3.21 %	3.2m Classification according to (EC) No. 1272/2008
	other unique identifiers:	3.2k EC	number:	Concentration:	{CLP}:
	67-56-1	200-6		<5%	H225 Highly flammable liquid and vapor. Flam. Liq. 2.
					H301 Toxic if swallowed. H311 Toxic in contact with
					skin. H331 Toxic if inhaled. Acute Tox. 3.
					H370 Causes damage to organs. STOT SE 1.
	n 4: First aid measures				
4.1	Description of first aid me	asures:			sician and provide SDS information. If exposed or
					dical attention/advice. Wash contaminated clothing
					er give anything to an unconscious person. First aid
					wear gloves/skin protection to avoid contact with
4.4	lab platica			product.	in and leave at most in a construction of the
4.1a	Inhalation:				ir and keep at rest in a comfortable position for
					eathing, give artificial respiration. Rinse nose and mouth
1 11-	Ckin contact:			with water. Get me	
4.1b	Skin contact:				clothing/shoes and immediately wash all exposed skin
				hospital. Get medic	er for at least 15 minutes. Take victim immediately to
4.1c	Eye contact:				ion immediately. Promptly wash eyes with plenty of
4.10	Lye contact.				he eyelids. Make sure to remove any contact lenses
					re rinsing. Continue to rinse for at least 15 minutes.
4.1d	Ingestion:				ion immediately and if any discomfort continues. NEVER
IU	mgesuon.				ISCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse
					Do not induce vomiting without advice from poison
					pedical professional.
4.2	Most important symptoms	and effects, h	oth acute		ons 2 and 11 for most important known symptoms and
	and delayed:	5.1.0010, 0		effects.	Januar
F	Inhalation:			May cause respirat	tory irritation.
4.2a	i iiiiaialioii.				

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4.2b	Skin contact:	Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
4.2c	Eye contact:	Causes serious eye irritation.
4.2d 4.3	Ingestion: Indication of any immediate medical attention and special treatment needed:	Harmful if swallowed.  Get medical attention immediately.
4.3a	Notes to physician/first responder:	Treat symptomatically. Refer to Sections 5-8 for advice on personal protective equipment.
Section	n 5: Firefighting measures	
5.1	Extinguishing media:	Use fire-extinguishing media appropriate for the surrounding materials.
5.1a	Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.1b <b>5.2</b>	Unsuitable extinguishing media:  Special hazards arising from the substance or mixture:	None known.
5.2a	Hazardous combustion products:	None under normal conditions.
5.2b	Unusual fire & explosion hazards:	No unusual fire or explosion hazards noted.
5.2c	Protective measures in fire:	Use protective equipment appropriate for surrounding materials. Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus and protective suit (see Section 8).
5.3	Advice for firefighters:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
5.3a	Special firefighting procedures:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
5.3b	Special protective equipment and precautions for firefighters:	Wear full protective clothing, including self-contained breathing apparatus, if necessary. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Section	n 6: Accidental release measures	
6.1	Personal precautions, protective equipment, and emergency procedures:	Use protective equipment appropriate for surrounding materials and to avoid contamination.
6.1a	General release measures:	No specific emergency measures are required other than good laboratory hygiene and safety practices for small spills. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel for large spills.
6.1b	Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures:	Wear suitable protective clothing/gloves/eye/face protection to prevent any contamination of skin, eyes, and personal clothing; use an approved supplied-air respirator, in case of emergency (also refer to Section 8). Remove all sources of ignition. Ensure adequate ventilation and control dust/mist. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel for large spills or if concerned.
6.1c	Advice for emergency responders; personal precautions, protective equipment and emergency procedures:	Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination; use an approved supplied-air respirator, in case of emergency (also refer to Section 8).
6.2	Environmental precautions:	Do not allow to enter drains, surface, and ground water, sewers, or watercourses.
6.3	Methods and materials for containment and clean up:	Contain any spills with dikes or absorbent materials to prevent migration and entry into sewers or water sources. Place in a suitable container for disposal in accordance with local waste regulations (see Section 13). Wash spill area thoroughly with plenty of soap and water. Avoid contact with skin or inhalation of spillage, dust, or vapor
6.4	Reference to other sections:	Refer to Sections 8 and 13 for additional information.
Section	n 7: Handling and storage	
7.1	Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Avoid creation of aerosol/mist/dust. Avoid inhalation of vapors/mist/dust. Prevent contact with skin and eyes. Use appropriate personal protection equipment (PPE). Thoroughly wash hands and contaminated areas with water and soap before leaving the work site. Keep away from sources of ignition.
7.1a	Prevent handling of incompatible substances or mixtures:	Avoid contact with strong acids and strong oxidizing substances.  Incompatible with strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline.
7.1b	Advice on general occupational hygiene:	Do not eat, drink, or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Good personal hygiene is necessary. Follow good laboratory hygiene and safety practices.
7.2	Conditions for safe storage, including any incompatibilities:	Refer to product label for storage. Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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		Avoid spills and release into the environment; keep away from
7.3	Specific end use(s):	watercourses.  For research use only. Not for use in diagnostic procedures.
	- Specime one ass(s).	To recognist and only. Her for add in alagnostic procedures.
	8: Exposure controls/personal protection	
8.1	Control parameters:	. Mathematic
8.1a	Occupational exposure limits, such as chemical identity, standard, TWA-8 hours (time weighted average), STEL-15 minutes (short term exposure limit), etc.: WEL = Workplace Exposure Limit. Sk = can be absorbed through skin.	Methanol: EH40 2005 UK Workplace Exposure Limits STEL: 333 mg/m³ 15 minutes STEL: 250 ppm 15 minutes TWA: 266 mg/m³ 8 hours TWA: 200 ppm 8 hours USA ACGIH Threshold Limit Values TWA- 200 ppm 8 hours STEL- 250 ppm 15 minutes STEL- 250 ppm 15 minutes STEL- 328 mg/m³ 15 minutes STEL- 328 mg/m³ 15 minutes US NIOSH Recommended Exposure Limits TWA- 200 ppm 10 hours TWA- 200 ppm 10 hours STEL- 325 mg/m³ 15 minutes STEL- 325 mg/m³ 15 minutes STEL- 30 ppm 8 hours TWA- 200 ppm 8 hours TWA- 200 ppm 8 hours TWA- 200 ppm 8 hours TWA- 260 mg/m³ 8 hours  Formaldehyde EH40 2005 UK Workplace Exposure Limits STEL: 2.5 mg/m³ 15 minutes STEL: 2.5 ppm 8 hours TWA: 2.5 mg/m³ 8 hours USA ACGIH Threshold Limit Values C: 0.300000 ppm OSHA PEL Subpart Z Standard - OSHA Specifically Regulated Chemicals/Carcinogens TWA 0.750000 ppm 8 hours STEL - 2.000000 ppm 15 minutes US NIOSH Recommended Exposure Limits TWA: 0.016000 ppm 10 hours CEIL - 0.100000 ppm 15 minutes
8.1b	Appropriate engineering controls:	
8.1c	Individual protection measures, such as personal protective equipment:	Wear gloves, lab coat, and protective goggles.
8.1d	Safety symbols:	
8.2	Exposure controls:	Provide suggests station
8.2a 8.2b	Process conditions: Engineering controls:	Provide eyewash station.  Ensure that eyewash stations and safety showers are proximal to the workstation location.
8.2c 8.2d	Ventilation controls:  Reference to other sections:	Provide adquate ventilation.  Refer to Section 5 for additional information.
8.2e	Eye/face protection:	Tightly fitting safety goggles. Use equipment for eye/face protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
8.2f	Skin protection:	Wear apron or protective clothing in case of contact.
8.2g	Hand protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only

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		and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of the customers' anticipated uses of the product. It should not be construed as offering an approval for any specific use
8.2h	Respiratory equipment:	scenario.  Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK
		(EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air
		respirator. Use respirators and components tested and approved under
8.2i	Other protection:	appropriate government standards such as NIOSH (US) or CEN (EU).  Wear appropriate clothing to prevent any possibility of skin contact.
8.2j	Hygiene measures:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift
•		and before eating, smoking, and using the toilet. Promptly remove any
		clothing that becomes contaminated. Use appropriate skin cream to
		prevent drying of skin. When using do not eat, drink, or smoke. Wash promptly with soap and water if skin becomes contaminated.
8.2k	Thermal hazards:	None known.
8.21	Environmental exposure controls:	Not determined.
0	O. Dharian and about an amount in	
9.1	9: Physical and chemical properties Information on basic physical and chemical	
J. 1	properties:	·
9.1a	Appearance (physical state, color, etc.):	Liquid; colorless; clear.
9.1b	Odor:	Pungent
9.1c	Odor threshold: pH:	Not determined. 6.8-7.4
9.1d 9.1e	рн:   Melting point/freezing point (°C):	Not determined.
9.1e 9.1f	Initial boiling point and boiling range:	Not determined.
9.1g	Flash point (°C):	85°C estimated value based on supplier data.
9.1h	Evaporation rate:	Not determined.
9.1i	Flammability (solid, gas):	Not determined.
9.1j	Upper/lower flammability or explosive limits:	Upper: 70%(V) estimated value. Lower: 7%(V) estimated value.
9.1k	Vapor pressure:	53 hPa at 39°C estimated value.
9.11	Vapor density (Air =1):	Not applicable.
9.1m	Relative density:	Not determined.
9.1n	Solubility(ies):	Readily miscible in water.
9.10	Partition coefficient (N-octanol/water): Auto-ignition temperature (°C):	Not determined.  Not determined.
9.1p 9.1q	Decomposition temperature (°C):	Not determined.
9.1r	Viscosity:	Not determined.
9.1s	Explosive properties:	Not determined.
	Oxidizing properties:	Not determined.
9.1t		
9.2	Other information:	None.
		None.
<b>9.2</b> 9.2a	Other information: Other physical or chemical parameters:  10: Stability and reactivity	None.
9.2 9.2a Section 10.1	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity:	None.  Strong acids. Strong oxidizing substances.
9.2 9.2a Section 10.1 10.2	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability:	None.  Strong acids. Strong oxidizing substances. Stable under normal temperature conditions.
9.2 9.2a Section 10.1 10.2 10.3	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined.
9.2 9.2a Section 10.1 10.2	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability:	None.  Strong acids. Strong oxidizing substances. Stable under normal temperature conditions.
9.2 9.2a Section 10.1 10.2 10.3	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines,
9.2 9.2a Section 10.1 10.2 10.3 10.4	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates,
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline.
9.2 9.2a Section 10.1 10.2 10.3 10.4	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate:
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline.
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5 10.6	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate:
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5 Section 11.1	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate:
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5 10.6 Section 11.1 11.1a	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects: Name:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate: Vapors/gases/fumes of: Formaldehyde.
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5 Section 11.1	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate: Vapors/gases/fumes of: Formaldehyde.
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5 10.6 Section 11.1 11.1a	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects: Name:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate: Vapors/gases/fumes of: Formaldehyde.  Formaldehyde: LD50 Dermal Rabbit 270 mg/kg. LD50 Oral Rat 100 mg/kg.
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5 10.6 Section 11.1 11.1a	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects: Name:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate: Vapors/gases/fumes of: Formaldehyde.  Formaldehyde: LD50 Dermal Rabbit 270 mg/kg. LD50 Oral Rat 100 mg/kg. Methanol:
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5 10.6 Section 11.1 11.1a	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects: Name:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate: Vapors/gases/fumes of: Formaldehyde.  Formaldehyde: LD50 Dermal Rabbit 270 mg/kg. LD50 Oral Rat 100 mg/kg. Methanol: LD50 Dermal Rabbit 15800 mg/kg.
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5  Section 11.1 11.1a 11.1b	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects: Name: Acute toxicity:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate: Vapors/gases/fumes of: Formaldehyde.  Formaldehyde: LD50 Dermal Rabbit 270 mg/kg. LD50 Oral Rat 100 mg/kg. Methanol: LD50 Dermal Rabbit 15800 mg/kg. LD50 Oral Rat 5600 mg/kg.
9.2 9.2a  Section 10.1 10.2 10.3 10.4 10.5  Section 11.1 11.1a 11.1b	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects: Name: Acute toxicity:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate: Vapors/gases/fumes of: Formaldehyde.  Formaldehyde: LD50 Dermal Rabbit 270 mg/kg. LD50 Oral Rat 100 mg/kg. Methanol: LD50 Dermal Rabbit 15800 mg/kg. LD50 Oral Rat 5600 mg/kg. Formaldehyde: Not determined. Methanol: Not determined.
9.2 9.2a Section 10.1 10.2 10.3 10.4 10.5  Section 11.1 11.1a 11.1b	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects: Name: Acute toxicity:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate: Vapors/gases/fumes of: Formaldehyde.  Formaldehyde: LD50 Dermal Rabbit 270 mg/kg. LD50 Oral Rat 100 mg/kg. Methanol: LD50 Dermal Rabbit 15800 mg/kg. LD50 Oral Rat 5600 mg/kg.
9.2 9.2a  Section 10.1 10.2 10.3 10.4 10.5  10.6  Section 11.1 11.1a 11.1b  11.1c 11.1d 11.1e 11.1f	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects: Name: Acute toxicity:  Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate: Vapors/gases/fumes of: Formaldehyde.  Formaldehyde: LD50 Dermal Rabbit 270 mg/kg. LD50 Oral Rat 100 mg/kg. Methanol: LD50 Dermal Rabbit 15800 mg/kg. LD50 Oral Rat 5600 mg/kg. Formaldehyde: Not determined. Methanol: Not determined.
9.2 9.2a  Section 10.1 10.2 10.3 10.4 10.5  10.6  Section 11.1 11.1a 11.1b  11.1c 11.1d 11.1e	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects: Name: Acute toxicity:  Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization:	Strong acids. Strong oxidizing substances.  Stable under normal temperature conditions.  Not determined.  Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight.  Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline.  None under normal conditions. High temperatures generate:  Vapors/gases/fumes of: Formaldehyde.
9.2 9.2a  Section 10.1 10.2 10.3 10.4 10.5  10.6  Section 11.1 11.1a 11.1b  11.1c 11.1d 11.1e 11.1f	Other information: Other physical or chemical parameters:  10: Stability and reactivity Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:  Hazardous decomposition products:  11: Toxicological information Information on toxicological effects: Name: Acute toxicity:  Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity:	Strong acids. Strong oxidizing substances. Stable under normal temperature conditions. Not determined. Heat, flames, and sparks. Avoid exposure to high temperatures or direct sunlight. Strong bases, strong acids, strong oxidizing agents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline. None under normal conditions. High temperatures generate: Vapors/gases/fumes of: Formaldehyde.  Formaldehyde: LD50 Dermal Rabbit 270 mg/kg. LD50 Oral Rat 100 mg/kg. Methanol: LD50 Dermal Rabbit 15800 mg/kg. LD50 Oral Rat 5600 mg/kg. Formaldehyde: Not determined. Methanol: Not determined.

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44.41	Barrier Land and Carlo	ACGIH - A2 (Suspected Human Carcinogen).
11.1h	Reproductive toxicity:	Formaldehyde: Not determined. Methanol: Not determined.
11.1i	STOT-single exposure:	Formaldehyde: Not determined. Methanol: Not determined.
11.1j	STOT-repeated exposure:	Formaldehyde: Category 3, Respiratory Tract Irritation. Methanol: Not
44.41	A	determined.
11.1k	Aspiration hazard:	Formaldehyde: Not determined. Methanol: Not determined.
11.11	Information on the likely routes of exposure (inhalation,	May enter by skin and/or eye contact; inhalation of vapors/mist/dust.
	ingestion, skin and eye contact):	
11.1m	Ingestion:	Harmful if swallowed.
11.1n	Inhalation:	May cause respiratory irritation.
11.10	Skin contact:	Harmful in contact with skin. Causes skin irritation. May cause an allergic
		skin reaction.
11.1p	Eye contact:	Causes serious eye irritation.
11.1q	Symptoms related to the physical, chemical and	May cause sensitization by skin contact.
44.4.	toxicological characteristics:	M
11.1r	Delayed and immediate effects as well as chronic	May cause cancer. Suspected of causing genetic defects. May cause
44.4.	effects from short and long term exposure:	damage to organs.
11.1s	Numerical measures of toxicity (such as acute toxicity	Not determined.
44.41	estimates):	Not be well a
11.1t	Interactive effects:	Not determined.
11.1u	Absence of specific data:	Not applicable.
11.1v	Mixtures:	Item is a mixture.
11.1w	Mixture vs. substance information:	See Section 3 for any substances in the mixture.
11.1x	Classification by National Toxicity Program (NTP):	Formaldehyde is known to be a human carcinogen. Methanol is not listed.
11.1y	Classification by International Agency for Research on	Formaldehyde is classified in Group 1: Carcinogenic to Humans. Methanol
44.4	Cancer (IARC):	is not listed.
11.1z	Classification by OSHA 13:	Formaldehyde is not listed. Methanol is not listed.
11.1ab	Other information:	Because of the small quantity of product, the health hazard is small.
	12: Ecological information	
12.1	Toxicity:	Mixture not tested.
12.1a	Name:	Fixative.
12.1b	Ecotoxicity (aquatic and terrestrial, where available):	No data available.
12.2	Persistence and degradability:	No data available.
12.3	Bioaccumulative potential:	No data available.
12.4	Mobility in soil:	No data available.
12.5	Results of PBT and vPvB assessment:	Not determined.
12.6	Other adverse effects:	Not determined.
12.6	Other adverse effects:	
12.6 Section	Other adverse effects:  13: Disposal considerations	Not determined.
12.6	Other adverse effects:	Not determined.  When handling waste, consideration should be made to the safety
12.6 Section 13.1	Other adverse effects:  13: Disposal considerations Waste treatment methods:	Not determined.  When handling waste, consideration should be made to the safety precautions applying to handling of the product.
12.6 Section	Other adverse effects:  13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority
12.6 Section 13.1	Other adverse effects:  13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the	Not determined.  When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or
12.6 Section 13.1	Other adverse effects:  13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their	Not determined.  When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8
12.6 Section 13.1	Other adverse effects:  13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or
12.6 Section 13.1 13.1a	Other adverse effects:  13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:	Not determined.  When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8
12.6  Section 13.1  13.1a  Section	Other adverse effects:  13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.
12.6  Section 13.1  13.1a  Section 14.1	13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information  UN number:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.
12.6  Section 13.1  13.1a  Section 14.1 14.2	13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information  UN number:  UN proper shipping name:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es):	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4	13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information  UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4 14.5	Other adverse effects:  13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information  UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:  Environmental hazards:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  Not applicable.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4	13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information  UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:  Environmental hazards:  Is it environmentally dangerous according to UN Model	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4 14.5 14.5a	13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information  UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:  Environmental hazards:  Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4 14.5 14.5a	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?:	Not determined.  When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4 14.5 14.5a  14.5b 14.6	13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information  UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:  Environmental hazards:  Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?:  Is it a marine pollutant according to the IMDG code?:  Special precautions for user:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  No.  None known.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4 14.5 14.5a	13: Disposal considerations  Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information  UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:  Environmental hazards:  Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?:  Is it a marine pollutant according to the IMDG code?:  Special precautions for user:  Transport in bulk according to Annex II of MARPOL	Not determined.  When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4 14.5 14.5a  14.5b 14.6 14.7	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.
12.6  Section 13.1  13.1a  Section 14.1  14.2  14.3  14.4  14.5  14.5a  14.7a	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4 14.5 14.5a  14.5b 14.6 14.7	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4 14.5 14.5a  14.7a 14.7a	Other adverse effects:  13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.
12.6  Section 13.1  13.1a  Section 14.1  14.2  14.3  14.5  14.5a  14.7a  14.7a  14.7b  Section	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4 14.5 14.5a  14.7a 14.7a	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.
12.6  Section 13.1  13.1a  Section 14.1  14.2  14.3  14.5  14.5a  14.7a  14.7a  14.7b  Section	Other adverse effects:  13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:  15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.
12.6  Section 13.1  13.1a  Section 14.1  14.2  14.3  14.4  14.5  14.5a  14.5b  14.6  14.7  14.7a  14.7b  Section  15.1	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:  15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.  Contact supplier.
12.6  Section 13.1  13.1a  Section 14.1 14.2 14.3 14.4 14.5 14.5a  14.7a 14.7a 14.7b  Section	Other adverse effects:  13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:  15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture: Regional safety, health and environmental regulations	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.
12.6  Section 13.1  13.1a  Section 14.1  14.2  14.3  14.4  14.5  14.5a  14.5b  14.6  14.7  14.7a  14.7b  Section  15.1	Other adverse effects:  13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:  15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture: Regional safety, health and environmental regulations specific for the product in question:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.  Contact supplier.
12.6  Section 13.1  13.1a  Section 14.1  14.2  14.3  14.4  14.5  14.5a  14.7b  14.7a  14.7b  Section  15.1	Other adverse effects:  13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:  15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture: Regional safety, health and environmental regulations	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.  Contact supplier.  USDA OSHA - Formaldehyde Standard Subpart Z 1910.1048.  Formaldehyde is listed on 302, 304, 313, and RCRA code U122.
12.6  Section 13.1  13.1a  Section 14.1  14.2  14.3  14.4  14.5  14.5a  14.5b  14.6  14.7  14.7a  14.7b  Section  15.1  15.1a	Other adverse effects:  13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:  15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture: Regional safety, health and environmental regulations specific for the product in question: USA SARA Components (such as 302/311/313):	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.  Contact supplier.  USDA OSHA - Formaldehyde Standard Subpart Z 1910.1048.  Formaldehyde is listed on 302, 304, 313, and RCRA code U122.  Methanol is listed on 313 and RCRA code U122.
12.6  Section 13.1  13.1a  Section 14.1  14.2  14.3  14.4  14.5  14.5a  14.5b  14.6  14.7  14.7a  14.7b  Section 15.1  15.1a  15.1b	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:  15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture: Regional safety, health and environmental regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.  Contact supplier.  USDA OSHA - Formaldehyde Standard Subpart Z 1910.1048.  Formaldehyde is listed on 302, 304, 313, and RCRA code U122.  Methanol is listed on 313 and RCRA code U122.  Formaldehyde and methanol are listed.
12.6  Section 13.1  13.1a  Section 14.1  14.2  14.3  14.4  14.5  14.5a  14.7a  14.7b  Section 15.1  15.1a  15.1b  15.1c  15.1d	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:  15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture: Regional safety, health and environmental regulations specific for the product in question: USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know: USA Pennsylvania Right to Know:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  The product is not covered by these regulations.  No.  None known.  Not applicable.  The product is not considered a dangerous good for transport.  Contact supplier.  USDA OSHA - Formaldehyde Standard Subpart Z 1910.1048.  Formaldehyde is listed on 302, 304, 313, and RCRA code U122.  Methanol is listed on 313 and RCRA code U122.  Formaldehyde and methanol are listed.  Formaldehyde and methanol are listed.
12.6  Section 13.1  13.1a  Section 14.1  14.2  14.3  14.4  14.5  14.5a  14.7b  14.7a  14.7b  Section 15.1  15.1a	13: Disposal considerations Waste treatment methods:  Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  14: Transport information UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?: Is it a marine pollutant according to the IMDG code?: Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code: Other information: Classification for other modes of transport:  15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture: Regional safety, health and environmental regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.  Not applicable. Not applicable. Not applicable. Not applicable.  The product is not covered by these regulations.  No. None known. Not applicable.  The product is not considered a dangerous good for transport. Contact supplier.  USDA OSHA - Formaldehyde Standard Subpart Z 1910.1048.  Formaldehyde is listed on 302, 304, 313, and RCRA code U122. Methanol is listed on 313 and RCRA code U122. Formaldehyde and methanol are listed.

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15.1g	EU Regulation 1907/2006 {REA		/e: 5/12/17; Supersedes: F17-536-2-C; Page 7 of 8
15.1g	Annex XIV substances subject to		Formaldehyde is listed.
15.1i	Substances of very high concern		Fixative is not listed.
15.1j	Approved code of practice:		Classification and labeling of substances and preparations dangerous for
			supply. Safety data sheets for substances and preparations.
15.1k	Guidance notes:		Workplace exposure limits EH40.
15.11	EU legislation references:		(EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/105/EC and 2000/21/EC, including amendments.
<b>15.2</b> 15.2a	Chemical safety assessment: Other regulatory information:		Not required. None.
Section	16: Other information		
16.1	Other information:		
16.1a	Date of revision:	12-May-2017	
16.1b	SDS number and revision:	F17-536-2-D	
16.1c	Supersedes SDS number and	F17-536-2-C	
16.1d	revision: Changes made to the previous	Reviewed and undate	ed document control numbers. Minor changes were made (corrected typos,
10.10	version of the SDS:	deleted redundant inf	
16.1e	Key/legend to abbreviations		official office of Governmental Industrial Hygienists.
	and acronyms used in the		sions concerning the International Carriage of Dangerous Goods by Inland
	SDS:	Waterway.	
			Agreement concerning the International Carriage of Dangerous Goods by
		Road.	ation at a
		ATE Acute Toxicity E BCF Bio Concentration	
		CAS Chemical Abstra	
			abelling and Packaging.
			itagen or Reproductive toxicant.
		COD Chemical Oxyge	en Demand.
		EC European Commi	
			ffective concentration.
			aining the list of workplace exposure limits for use with the Control of
		Substances Hazardol	us to Health Regulations. ventory of Existing Commercial chemical Substances.
			st of Notified Chemical Substances.
		EU European Union.	of the fine of the
			nized System of Classification and Labelling of Chemicals.
		H Statement GHS Ha	zard statement.
			Transport Association.
		IBC Intermediate Bull	
			nibitory concentration.
		LC50 Median lethal c	laritime Dangerous Goods. oncentration
		LD50 Median lethal d	
			the octanol/water partition coefficient.
		MARPOL 73/78 Interi	national Convention for the Prevention of Pollution From Ships, 1973 as
		modified by the Proto	
		OEL Occupational Ex	
			Safety and Health Administration (USA). ccumulative, and Toxic.
		PEL Permissible Exp	
			concerning the International Carriage of Dangerous Goods by Rail.
		SADT Self-Accelerati	ng Decomposition Temperature.
		SARA Superfund Am	endments and Reauthorization Act.
			Breathing Apparatus.
		SDS Safety Data She	eet.
		STOT Specific Target	
			arget Organ Toxicity - Repeated Exposure. arget Organ Toxicity - Single Exposure.
		UN United Nations.	nget Organ Toxiotty - Single Exposure.
		USA United States of	America.
			very bioaccumulative.
16.1f	Full text of hazard statements	All statements were v	
	and/or precautionary		
	statements not written out in		
	full elsewhere:		

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DISCLAIMER:	This information relates only to the specific material designated and may not be valid for
	such material used in combination with any other materials or in any process. Such
	information is, to the best of the company's knowledge and belief, accurate and reliable as
	of the date indicated. However, no warranty guarantee or representation is made to its
	accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to
	the suitability of such information for his own particular use.
	END OF SDS



# SAFETY DATA SHEET (SDS) according to Regulation (EC) No. 830/2015 amending 1907/2006

1.1	on 1: Identification of the substance/mixture and of the Product identifier:		
		Hoechst 33342	
1.1a	Other means of identification:		
1.1b	Alternative product name(s)/ synonyms:	Hoechst stain, HS	
1.1c	Product number/Catalog #(s):	556, 639	
1.1d	Internal identification:	Hoechst stain; HS	
1.2	Relevant identified uses of the substance or	For research use only. Not for use in diagnostic procedures.	
	mixture and uses advised against:		
1.2a	Brief description of what the substance or mixture is	Cell permeant blue fluorescent stain typically used to visualize the	
	intended to do:	nuclei of cells.	
1.3	Details of the supplier of the SDS:		
1.3a	Name:	ImmunoChemistry Technologies, LLC (ICT)	
1.3b	Address:	9401 James Avenue South, Suite 155	
1.3c	City, State, Zip, Country	Bloomington, MN 55431-2500 USA	
1.3d	Phone number:	1-800-829-3194 and 952-888-8788	
1.3e	Fax number:	952-888-8988	
1.3f	Website:	www.immunochemistry.com	
1.3g	Email:	help@immunochemistry.com	
1.3h	Contact person at ICT:	Quality Documentation Department	
1.4	Emergency telephone number:	ICT: 1-800-829-3194 (USA & Canada) or 952-888-8788 world wide;	
		ICT hours are 9 am-5 pm central time USA, Monday through Friday	
		(excluding holidays). Chemtrec 24-hour access within USA and	
		Canada: 1-800-424-9300 or +1 703-527-3887. Collect calls accepted.	
	n 2: Hazards identification		
2.1	Classification of the substance or mixture:		
2.1a	Product is a:	Mixture.	
2.1b	Classification according to (EC) No. 1272/2008	Does not meet the criteria for classification.	
	{CLP}:		
2.1c	The most important adverse physiochemical, human	Refer to Sections 9-12.	
	health, and environmental effects:		
2.2	Label elements:	None.	
2.2a	GHS label elements, including precautionary		
	statements:		
2.2b	Contains:		
2.2c	Labeling in accordance with (EC) No. 1272/2008:		
2.2d	Hazard Pictograms (Hazard Symbols):	None.	
2.2e	Signal word:	None.	
2.2f	Hazard statements:	None.	
2.2g	Precautionary statements:	None.	
2.2h	Supplementary precaution statements:	None.	
2.3	Other hazards:	No additional information available.	
2.3a	Does the chemical meet the criteria for PBT or vPvB?	Not applicable.	
2.3b	Other hazards which do not result in classification:	Hoechst contains a low concentration of Bis benzimide H 33342	
		trihydrochloride (CAS 23491-52-3) which is below the threshold for	
		reporting. Hoechst is a suspected mutagen at high concentrations.	
		Prolonged skin contact may cause redness and irritation. Because of	
		the small quantity of product, the health hazard is small.	
	on 3: Composition/information on ingredients		
3.1	Substance:	Item is a mixture therefore Section 3.1 is not applicable; see Section	
		3.2.	
3.2	Mixture:	Item is a mixture.	
	The chemical identity and concentration or		
	concentration ranges of all ingredients which are		
	hazardous and are present above their cut-off levels:		
	3.2a Chemical identity:	No ingredients identified for reporting in this section.	
	on 4: First aid measures		
Sectio 4.1	Description of first aid measures:	If concerned, get medical attention/advice and provide physician with	
		If concerned, get medical attention/advice and provide physician with SDS information. Wash contaminated clothing before re-use. Never give anything by mouth to an unconscious person.	

Hoechst 33342 SDS; Doc# F17-556-2-D; Effective: 05/12/2017; Supersedes: F17-556-2-C; Page 2 of 6

4.1a		
	Inhalation:	Remove to fresh air and keep at rest in a comfortable position for
		breathing. If not breathing, give artificial respiration. Rinse nose and
		mouth with water. Get medical attention if any discomfort continues.
4.41-	Older sentests	
4.1b	Skin contact:	Wash skin thoroughly with soap and water for several minutes;
		continue to rinse for at least 15 minutes. Remove any contaminated
		clothing and shoes and wash thoroughly before reuse. Get medical
		attention if any discomfort continues.
4.1c	Eye contact:	Promptly wash eyes with plenty of water while lifting the eyelids. Make
4.10	Lye contact.	
		sure to remove any contact lenses from the eyes before rinsing.
		Continue to rinse for at least 15 minutes. Get medical attention if any
		discomfort continues.
4.1d	Ingestion:	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK
	9	FLUIDS! Rinse mouth thoroughly. Do not induce vomiting without
		advice from poison control center or medical professional. Get medical
		attention if any discomfort continues.
4.2	Most important symptoms and effects, both acute	Hoechst is a suspected mutagen at high concentrations. Prolonged
	and delayed:	skin contact may cause redness and irritation. Because of the small
		quantity of product, the health hazard is small.
1.20	Inhalation	
4.2a	Inhalation:	May cause coughing or mild irritation.
4.2b	Skin contact:	Prolonged skin contact may cause redness and mild irritation.
4.2c	Eye contact:	May cause temporary eye irritation.
4.2d	Ingestion:	May cause discomfort if swallowed.
4.3	Indication of any immediate medical attention and	No specific first aid measures noted, but first aid may still be required
	special treatment needed:	in case of accidental exposure, inhalation, or ingestion of this product.
	opoolal troutiliont liebucu.	
4.0	Nata to about it is the same	If in doubt, get medical attention promptly!
4.3a	Notes to physician/first responder:	Treat symptomatically. Refer to Sections 5-8 for advice on personal
		protective equipment.
Section	on 5: Firefighting measures	
5.1	Extinguishing media:	This product is not flammable. Use fire-extinguishing media
•••		appropriate for the surrounding materials.
- 1	0.5011 6.511	
5.1a	Suitable extinguishing media:	Water spray, foam, dry powder, or carbon dioxide.
5.1b	Unsuitable extinguishing media:	None known.
5.2	Special hazards arising from the substance or	This product is not flammable. Product is not explosive. No dangerous
	mixture:	reactions known under normal conditions of use.
5.2a	Hazardous combustion products:	None under normal conditions.
5.2b	Unusual fire & explosion hazards:	No unusual fire or explosion hazards noted.
J.ZD		
5.2c	Protective measures in fire:	Use protective equipment appropriate for surrounding materials.
	Protective measures in fire: Advice for firefighters:	Keep away from heat, hot surfaces, sparks, open flames and other
5.2c		
5.2c <b>5.3</b>	Advice for firefighters:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
5.2c <b>5.3</b> 5.3a	Advice for firefighters:  Special firefighting procedures:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.
5.2c <b>5.3</b>	Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing
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5.2c 5.3 5.3a 5.3b Section 6.1	Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  on 6: Accidental release measures Personal precautions, protective equipment, and emergency procedures: General release measures:  Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures:  Advice for emergency responders; personal	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Use protective equipment appropriate for surrounding materials.  No specific emergency measures are required other than good laboratory hygiene and safety practices for small spills. Wear suitable protective clothing, gloves and eye or face protection. Consult professional emergency personnel if concerned (see Section 8).  No specific emergency measures are required other than good laboratory hygiene and safety practices. Wear suitable protective clothing/gloves/eye/face protection to avoid contact with skin, eyes, and personal clothing; use an approved supplied-air respirator, in case of emergency (also refer to Section 8). Remove all sources of ignition. Ensure adequate ventilation and control dust/mist. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel if concerned.  Wear suitable protective clothing, gloves and eye or face protection to
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5.2c 5.3a 5.3b Section 6.1 6.1a	Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  on 6: Accidental release measures Personal precautions, protective equipment, and emergency procedures: General release measures:  Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures:  Advice for emergency responders; personal	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Use protective equipment appropriate for surrounding materials.  No specific emergency measures are required other than good laboratory hygiene and safety practices for small spills. Wear suitable protective clothing, gloves and eye or face protection. Consult professional emergency personnel if concerned (see Section 8).  No specific emergency measures are required other than good laboratory hygiene and safety practices. Wear suitable protective clothing/gloves/eye/face protection to avoid contact with skin, eyes, and personal clothing; use an approved supplied-air respirator, in case of emergency (also refer to Section 8). Remove all sources of ignition. Ensure adequate ventilation and control dust/mist. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel if concerned.  Wear suitable protective clothing, gloves and eye or face protection to avoid contact; use an approved supplied-air respirator, in case of
5.2c 5.3a 5.3b Section 6.1a 6.1b	Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  on 6: Accidental release measures Personal precautions, protective equipment, and emergency procedures: General release measures:  Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures:  Advice for emergency responders; personal precautions, protective equipment and emergency procedures:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Use protective equipment appropriate for surrounding materials.  No specific emergency measures are required other than good laboratory hygiene and safety practices for small spills. Wear suitable protective clothing, gloves and eye or face protection. Consult professional emergency personnel if concerned (see Section 8).  No specific emergency measures are required other than good laboratory hygiene and safety practices. Wear suitable protective clothing/gloves/eye/face protection to avoid contact with skin, eyes, and personal clothing; use an approved supplied-air respirator, in case of emergency (also refer to Section 8). Remove all sources of ignition. Ensure adequate ventilation and control dust/mist. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel if concerned.  Wear suitable protective clothing, gloves and eye or face protection to avoid contact; use an approved supplied-air respirator, in case of emergency (also refer to Section 8).
5.2c 5.3a 5.3b Section 6.1a 6.1b	Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  on 6: Accidental release measures Personal precautions, protective equipment, and emergency procedures: General release measures:  Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures:  Advice for emergency responders; personal precautions, protective equipment and emergency procedures:  Environmental precautions:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Use protective equipment appropriate for surrounding materials.  No specific emergency measures are required other than good laboratory hygiene and safety practices for small spills. Wear suitable protective clothing, gloves and eye or face protection. Consult professional emergency personnel if concerned (see Section 8).  No specific emergency measures are required other than good laboratory hygiene and safety practices. Wear suitable protective clothing/gloves/eye/face protection to avoid contact with skin, eyes, and personal clothing; use an approved supplied-air respirator, in case of emergency (also refer to Section 8). Remove all sources of ignition. Ensure adequate ventilation and control dust/mist. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel if concerned.  Wear suitable protective clothing, gloves and eye or face protection to avoid contact; use an approved supplied-air respirator, in case of emergency (also refer to Section 8).  Do not allow to enter drains, sewers, or watercourses.
5.2c 5.3a 5.3b Section 6.1a 6.1b	Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  on 6: Accidental release measures Personal precautions, protective equipment, and emergency procedures: General release measures:  Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures:  Advice for emergency responders; personal precautions, protective equipment and emergency procedures:  Environmental precautions: Methods and materials for containment and	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Use protective equipment appropriate for surrounding materials.  No specific emergency measures are required other than good laboratory hygiene and safety practices for small spills. Wear suitable protective clothing, gloves and eye or face protection. Consult professional emergency personnel if concerned (see Section 8).  No specific emergency measures are required other than good laboratory hygiene and safety practices. Wear suitable protective clothing/gloves/eye/face protection to avoid contact with skin, eyes, and personal clothing; use an approved supplied-air respirator, in case of emergency (also refer to Section 8). Remove all sources of ignition. Ensure adequate ventilation and control dust/mist. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel if concerned.  Wear suitable protective clothing, gloves and eye or face protection to avoid contact; use an approved supplied-air respirator, in case of emergency (also refer to Section 8).  Do not allow to enter drains, sewers, or watercourses.  Contain any spills with dikes or absorbent materials to prevent
5.2c 5.3a 5.3b Section 6.1a 6.1b	Advice for firefighters:  Special firefighting procedures: Special protective equipment and precautions for firefighters:  on 6: Accidental release measures Personal precautions, protective equipment, and emergency procedures: General release measures:  Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures:  Advice for emergency responders; personal precautions, protective equipment and emergency procedures:  Environmental precautions:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  No specific firefighting procedure given.  Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Use protective equipment appropriate for surrounding materials.  No specific emergency measures are required other than good laboratory hygiene and safety practices for small spills. Wear suitable protective clothing, gloves and eye or face protection. Consult professional emergency personnel if concerned (see Section 8).  No specific emergency measures are required other than good laboratory hygiene and safety practices. Wear suitable protective clothing/gloves/eye/face protection to avoid contact with skin, eyes, and personal clothing; use an approved supplied-air respirator, in case of emergency (also refer to Section 8). Remove all sources of ignition. Ensure adequate ventilation and control dust/mist. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel if concerned.  Wear suitable protective clothing, gloves and eye or face protection to avoid contact; use an approved supplied-air respirator, in case of emergency (also refer to Section 8).  Do not allow to enter drains, sewers, or watercourses.

Hoechst 33342 SDS; Doc# F17-556-2-D; Effective: 05/12/2017; Supersedes: F17-556-2-C; Page 3 of 6 Section 13). Wash spill area thoroughly with plenty of soap and water. Avoid contact with skin or inhalation of spillage, dust, or vapor. Reference to other sections: Refer to Sections 8 and 13 for additional information. 6.4 Section 7: Handling and storage Do not handle until all safety precautions have been read and 7.1 Precautions for safe handling: understood. Avoid creation of aerosol/mist/dust. Avoid inhalation of vapors/mist/dust. Prevent contact with skin and eyes. Use appropriate personal protection equipment (PPE). Thoroughly wash hands and contaminated areas with water and soap before leaving the work site. Keep away from sources of ignition. 7.1a Prevent handling of incompatible substances or Avoid contact with strong acids and strong oxidizers. mixtures: 7.1b Do not eat, drink, or smoke in work areas. Wash hands after use. Advice on general occupational hygiene: Remove contaminated clothing and protective equipment before entering eating areas. Good personal hygiene is necessary. Follow good laboratory hygiene and safety practices. 7.2 Conditions for safe storage, including any Refer to product label. Store in cool place. Keep container tightly incompatibilities: closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid spills and release into the environment; keep away from watercourses. 7.3 Specific end use(s): For research use only. Not for use in diagnostic procedures. Section 8: Exposure controls/personal protection Control parameters: 8.1 8.1a Occupational exposure limits, such as chemical Not available. identity, standard, TWA-8 hours (time weighted average), STEL-15 minutes (short term exposure limit), etc.: WEL = Workplace Exposure Limit. Sk = can be absorbed through skin. 8.1b Appropriate engineering controls: 8.1c Individual protection measures, such as personal Wear gloves, protective goggles, and lab coat. protective equipment: 8.1d Safety symbols: 8.2 **Exposure controls:** 8.2a Process conditions: Provide eyewash station. 8.2b Engineering controls: Ensure that eyewash stations and safety showers are proximal to the workstation location. Ventilation controls: Provide adequate ventilation. 8.2c 8.2d Reference to other sections: Refer to Section 5 for additional information. Wear approved chemical safety goggles where eye exposure is 8.2e Eye/face protection: reasonably probable or face shield if risk of splashing. 8.2f Skin protection: Wear apron or protective clothing in case of contact. Use suitable protective gloves if risk of skin contact. 8.2g Hand protection: 8.2h Respiratory equipment: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). 8.2i Wear appropriate clothing to avoid skin contact. Other protection: 8.2j DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift Hygiene measures: and before eating, smoking, and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink, or smoke. Wash promptly with soap and water if skin becomes contaminated 8.2k None known under normal conditions of use. Thermal hazards: 8.21 Environmental exposure controls: Not determined. Section 9: Physical and chemical properties 9.1 Information on basic physical and chemical

Liquid; clear light yellow.

No characteristic odor.

Not determined.

properties:

Odor threshold:

Odor:

Appearance (physical state, color, etc.):

9.1a

9.1b

9.1c

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9.1d	pH:	3.0-5.0
9.1e	Melting point/freezing point (°C):	Not determined.
9.1f	Initial boiling point and boiling range:	<100°C @ 760 mm Hg.
9.1g	Flash point (°C):	Not applicable.
9.1h	Evaporation rate:	Not determined.
9.1i	Flammability (solid, gas):	Not applicable.
9.1j	Upper/lower flammability or explosive limits:	Not applicable.
9.1k	Vapor pressure:	Not determined.
9.11	Vapor density (Air =1):	Not determined.
	Relative density:	
9.1m		Not determined.
9.1n	Solubility(ies):	Soluble in water.
9.10	Partition coefficient (N-octanol/water):	Not determined.
9.1p	Auto-ignition temperature (°C):	Not determined.
9.1q	Decomposition temperature (°C):	Not determined.
9.1r	Viscosity:	Not determined.
9.1s	Explosive properties:	Not determined.
9.1t	Oxidizing properties:	Not determined.
9.2	Other information:	None.
9.2a	Other physical or chemical parameters:	None.
3.2a	Other physical of chemical parameters.	None.
	40.00 1 1111	
	10: Stability and reactivity	
10.1	Reactivity:	No data available.
10.2	Chemical stability:	Stable under normal temperature conditions.
10.3	Possibility of hazardous reactions:	Hazardous polymerization: will not polymerize.
	Conditions to avoid:	
10.4	Conditions to avoid:	To avoid product degradation, avoid exposure to high temperatures or
		direct sunlight or light.
10.5	Incompatible materials:	Strong oxidizing substances.
10.6	Hazardous decomposition products:	None under normal conditions.
.0.0	Tidada do do composition productor	Trene under normal conditions.
0	AA. Taulada dada listama (las	
	11: Toxicological information	
11.1	Information on toxicological effects:	
11.1a	Name:	Hoechst 33342
11.1b	Acute toxicity:	Not determined.
11.1c	Skin corrosion/irritation:	Not determined.
11.1d	Serious eye damage/irritation:	Not determined.
11.1e	Respiratory or skin sensitization:	Not determined.
11.1f	Germ cell mutagenicity:	Toxicological studies are not yet available. In vitro DNA repair and
		inhibition tests suggest mutagenic effects in mouse fibroblasts and
		hamster lung cells. Knowledge about health hazard is incomplete.
11.1g	Carcinogenicity:	Not determined.
11.1h	Reproductive toxicity:	Not determined.
11.1i	STOT-single exposure:	Not determined.
11.1j	STOT-repeated exposure:	Not determined.
_		
11.1k	Aspiration hazard:	Not determined.
11.11	Information on the likely routes of exposure	
		May enter by skin and/or eye contact; inhalation of vapors/mist/dust.
		May enter by skin and/or eye contact; inhalation of vapors/mist/dust.
11 1m	(inhalation, ingestion, skin and eye contact):	
11.1m	(inhalation, ingestion, skin and eye contact): Ingestion:	May cause discomfort if swallowed.
11.1m 11.1n	(inhalation, ingestion, skin and eye contact):	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory
11.1n	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.
	(inhalation, ingestion, skin and eye contact): Ingestion:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.
11.1n 11.1o	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.
11.1n 11.1o 11.1p	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.
11.1n 11.1o	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.
11.1n 11.10 11.1p 11.1q	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.
11.1n 11.1o 11.1p	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.
11.1n 11.10 11.1p 11.1q	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.
11.1n 11.10 11.1p 11.1q	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation: Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.
11.1n 11.10 11.1p 11.1q	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.
11.1n 11.1o 11.1p 11.1q 11.1r 11.1s	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates):	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.
11.1n  11.1o 11.1p 11.1q  11.1r  11.1s	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.
11.1n  11.1o  11.1p  11.1q  11.1r  11.1s  11.1t  11.1u	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not determined.  Not applicable.
11.1n  11.1o 11.1p 11.1q  11.1r  11.1s	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.
11.1n  11.1o  11.1p  11.1q  11.1r  11.1s  11.1t  11.1u  11.1v	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not determined.  Not applicable.  Item is a mixture.
11.1n  11.1o  11.1p  11.1q  11.1r  11.1s  11.1t  11.1u  11.1v  11.1w	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not determined.  Not applicable.  Item is a mixture.  See Section 3 for any substances in the mixture.
11.1n  11.1o  11.1p  11.1q  11.1r  11.1s  11.1t  11.1u  11.1v  11.1w  11.1x	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP):	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not applicable.  Item is a mixture.  See Section 3 for any substances in the mixture.  Not classified.
11.1n  11.1o  11.1p  11.1q  11.1r  11.1s  11.1t  11.1u  11.1v  11.1w	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by International Agency for Research	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not determined.  Not applicable.  Item is a mixture.  See Section 3 for any substances in the mixture.
11.1n  11.1o  11.1p  11.1r  11.1s  11.1t  11.1u  11.1v  11.1w  11.1x  11.1y	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by International Agency for Research on Cancer (IARC):	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not applicable.  Item is a mixture.  See Section 3 for any substances in the mixture.  Not classified.
11.1n  11.1o  11.1p  11.1r  11.1s  11.1t  11.1u  11.1v  11.1w  11.1x  11.1y	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by International Agency for Research on Cancer (IARC):	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not applicable.  Item is a mixture.  See Section 3 for any substances in the mixture.  Not classified.
11.1n  11.1o  11.1p  11.1r  11.1s  11.1t  11.1u  11.1v  11.1w  11.1x  11.1y  11.1z	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by International Agency for Research on Cancer (IARC): Classification by OSHA 13:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not applicable.  Item is a mixture.  See Section 3 for any substances in the mixture.  Not classified.  Not classified.
11.1n  11.1o  11.1p  11.1r  11.1s  11.1t  11.1u  11.1v  11.1w  11.1x  11.1y	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by International Agency for Research on Cancer (IARC):	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not applicable.  Item is a mixture.  See Section 3 for any substances in the mixture.  Not classified.  Prolonged skin
11.1n  11.1o  11.1p  11.1r  11.1s  11.1t  11.1u  11.1v  11.1w  11.1x  11.1y  11.1z	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by International Agency for Research on Cancer (IARC): Classification by OSHA 13:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not applicable.  Item is a mixture.  See Section 3 for any substances in the mixture.  Not classified.  Not classified.  Not classified.  Not classified.  Not classified.  Not classified.  Prolonged skin contact may cause redness and irritation. Because of the small quantity
11.1n  11.1o  11.1p  11.1r  11.1s  11.1t  11.1u  11.1v  11.1w  11.1x  11.1y  11.1z	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by International Agency for Research on Cancer (IARC): Classification by OSHA 13:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not applicable.  Item is a mixture.  See Section 3 for any substances in the mixture.  Not classified.  Prolonged skin
11.1n  11.1o  11.1p  11.1r  11.1s  11.1t  11.1u  11.1v  11.1w  11.1x  11.1y  11.1z	(inhalation, ingestion, skin and eye contact): Ingestion: Inhalation:  Skin contact: Eye contact: Symptoms related to the physical, chemical and toxicological characteristics: Delayed and immediate effects as well as chronic effects from short and long term exposure: Numerical measures of toxicity (such as acute toxicity estimates): Interactive effects: Absence of specific data: Mixtures: Mixture vs. substance information: Classification by National Toxicity Program (NTP): Classification by International Agency for Research on Cancer (IARC): Classification by OSHA 13:	May cause discomfort if swallowed.  In high concentrations, vapors may irritate throat and respiratory system and cause coughing.  Liquid may irritate skin.  Spray and vapor in the eyes may cause irritation and smarting.  No specific symptoms noted.  Not determined.  Not determined.  Not applicable.  Item is a mixture.  See Section 3 for any substances in the mixture.  Not classified.  Not classified.  Not classified.  Not classified.  Not classified.  Not classified.  Prolonged skin contact may cause redness and irritation. Because of the small quantity

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Section	n 12: Ecological information	
12.1	Toxicity:	
12.1a	Name:	Hoechst 33342.
12.1b	Ecotoxicity (aguatic and terrestrial, where available):	Not determined.
12.2	Persistence and degradability:	There are no data on the degradability of this product.
12.3	Bioaccumulative potential:	No data available on bioaccumulation.
12.4	Mobility in soil:	The product is soluble in water.
12.5	Results of PBT and vPvB assessment:	Not determined.
12.6	Other adverse effects:	No data available.
	40.51	
	13: Disposal considerations	1 AA
13.1	Waste treatment methods:	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
13.1a	Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:	Dispose of waste and residues in accordance with local authority requirements. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8 (exposure controls and personal protection) of the SDS.
Section	14: Transport information	
14.1	n 14: Transport information UN number:	Not applicable.
14.1	UN proper shipping name:	Not applicable.
14.3	Transport hazard class(es):	Not applicable.
14.4	Packing group:	Not applicable.
14.5	Environmental hazards:	
14.5a	Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?:	The product is not covered by these regulations.
14.5b	Is it a marine pollutant according to the IMDG code?:	No.
14.6	Special precautions for user:	None known.
14.7	Transport in bulk according to Annex II of MARPOL and the IBC code:	Not applicable.
14.7a	Other information:	The product is not considered a dangerous good for transport.
14.7b	Classification for other modes of transport:	Contact supplier.
	15: Regulatory information	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture:	
15.1a		
	Regional safety, health and environmental regulations specific for the product in question:	
	regulations specific for the product in question:	. Not listed.
15.1b 15.1c		Not listed. Not listed.
15.1b	regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know: USA Pennsylvania Right to Know:	
15.1b 15.1c 15.1d 15.1e	regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know: USA Pennsylvania Right to Know: USA New Jersey Right to Know:	Not listed. Not listed. Not listed.
15.1b 15.1c 15.1d 15.1e 15.1f	regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:	Not listed. Not listed.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g	regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:	Not listed. Not listed. Not listed. Not listed
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h	regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:	Not listed. Not listed. Not listed. Not listed Not listed Not listed.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i	regulations specific for the product in question:  USA SARA Components (such as 302/311/313):  USA Massachusetts Right to Know:  USA Pennsylvania Right to Know:  USA New Jersey Right to Know:  USA California Prop. 65 Components:  EU Regulation 1907/2006 {REACH}:  Annex XIV substances subject to authorization:  Substances of very high concern:	Not listed. Not listed. Not listed. Not listed.  Not listed.  Not listed.  Not listed.  Not listed.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1i 15.1s 15.1k	regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know: USA Pennsylvania Right to Know: USA New Jersey Right to Know: USA California Prop. 65 Components: EU Regulation 1907/2006 {REACH}: Annex XIV substances subject to authorization: Substances of very high concern: Approved code of practice:  Guidance notes: EU legislation references:	Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1i 15.1k 15.11	regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know: USA Pennsylvania Right to Know: USA New Jersey Right to Know: USA California Prop. 65 Components: EU Regulation 1907/2006 {REACH}: Annex XIV substances subject to authorization: Substances of very high concern: Approved code of practice:  Guidance notes: EU legislation references:	Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.  Not required.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1i 15.1j	regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know: USA Pennsylvania Right to Know: USA New Jersey Right to Know: USA California Prop. 65 Components: EU Regulation 1907/2006 {REACH}: Annex XIV substances subject to authorization: Substances of very high concern: Approved code of practice:  Guidance notes: EU legislation references:	Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1i 15.1s 15.1s 15.1s 15.1s 15.1s	regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know: USA Pennsylvania Right to Know: USA New Jersey Right to Know: USA California Prop. 65 Components: EU Regulation 1907/2006 {REACH}: Annex XIV substances subject to authorization: Substances of very high concern: Approved code of practice:  Guidance notes: EU legislation references:  Chemical safety assessment: Other regulatory information:	Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.  Not required.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1j 15.1k 15.1l	regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know: USA Pennsylvania Right to Know: USA New Jersey Right to Know: USA California Prop. 65 Components: EU Regulation 1907/2006 {REACH}: Annex XIV substances subject to authorization: Substances of very high concern: Approved code of practice:  Guidance notes: EU legislation references:  Chemical safety assessment: Other regulatory information:  16: Other information:	Not listed.  Not listed.  Not listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.  Not required.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1j  15.1k 15.1l  15.2  16.1 16.1a	regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know: USA Pennsylvania Right to Know: USA New Jersey Right to Know: USA California Prop. 65 Components: EU Regulation 1907/2006 {REACH}: Annex XIV substances subject to authorization: Substances of very high concern: Approved code of practice:  Guidance notes: EU legislation references:  Chemical safety assessment: Other regulatory information:  16: Other information: Date of revision:	Not listed. Not listed. Not listed. Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.  Not required.  None.
15.1b 15.1c 15.1d 15.1e 15.1f 15.1g 15.1h 15.1i 15.1j 15.1k 15.1l	regulations specific for the product in question: USA SARA Components (such as 302/311/313): USA Massachusetts Right to Know: USA Pennsylvania Right to Know: USA New Jersey Right to Know: USA California Prop. 65 Components: EU Regulation 1907/2006 {REACH}: Annex XIV substances subject to authorization: Substances of very high concern: Approved code of practice:  Guidance notes: EU legislation references:  Chemical safety assessment: Other regulatory information:  16: Other information:	Not listed.  Not listed.  Not listed.  Not listed.  Not listed.  Not listed.  Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.  Workplace exposure limits EH40.  (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 830/2015. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.  Not required.

#### Hoechst 33342 SDS; Doc# F17-556-2-D; Effective: 05/12/2017; Supersedes: F17-556-2-C; Page 6 of 6 Reviewed and updated document control numbers. 16.1d Changes made to the previous version of the SDS: 16.1e Key/legend to abbreviations and acronyms used in ACGIH American Conference of Governmental Industrial Hygienists. ADN European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway. ADR The European Agreement concerning the International Carriage of Dangerous Goods by Road. ATE Acute Toxicity Estimate. BCF Bio Concentration Factor. CAS Chemical Abstracts Service. CLP Classification, Labelling and Packaging. CMR Carcinogen, Mutagen or Reproductive toxicant. COD Chemical Oxygen Demand. EC European Commission. EC50 Half maximal effective concentration. EH40 Resource containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations. EINECS European Inventory of Existing Commercial chemical Substances. ELINCS European List of Notified Chemical Substances. EU European Union. GHS Globally Harmonized System of Classification and Labelling of Chemicals. H Statement GHS Hazard statement. IATA International Air Transport Association. IBC Intermediate Bulk Container. IC50 Half maximal inhibitory concentration. IMDG International Maritime Dangerous Goods. LC50 Median lethal concentration. LD50 Median lethal dose. LogPow logarithm of the octanol/water partition coefficient. MARPOL 73/78 International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. OEL Occupational Exposure Limit. OSHA Occupational Safety and Health Administration (USA). PBT Persistent, Bioaccumulative, and Toxic. PEL Permissible Exposure Limit. RID The Regulations concerning the International Carriage of Dangerous Goods by Rail. SADT Self-Accelerating Decomposition Temperature. SARA Superfund Amendments and Reauthorization Act. SCBA Self-Contained Breathing Apparatus. SDS Safety Data Sheet. STOT Specific Target Organ Toxicity. STOT-RE Specific Target Organ Toxicity - Repeated Exposure. STOT-SE Specific Target Organ Toxicity - Single Exposure.

16.1f Full text of hazard statements and/or precautionary statements not written out in full elsewhere:

All statements were written out in full.

vPvB very Persistent very bioaccumulative.

USA United States of America.

DISCLAIMER:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

UN United Nations.

**END OF SDS**