

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:	MR-(RR) ₂	
1.1a	Other means of identification:	IVIIX-(IXIX)2	
1.1b	Alternative product name(s)/ synonyms:	Magic Red-(RR) ₂ , MR-RR, MR-(Arg-Arg) ₂ , Cresyl-violet-RR, Magic	
1.10	Alternative product name(s)/ synonyms.	Red Cathepsin B substrate	
1.1c	Product number/Catalog #(s):	6133, 6134	
1.1d	Internal identification:	MR-(RR) ₂ , MR-RR, MR-(Arg-Arg) ₂ , Cresyl-violet-RR, Magic Red	
		Cathepsin B substrate	
1.2	Relevant identified uses of the substance or	For research use only. Not for use in diagnostic procedures.	
1.2a	mixture and uses advised against: Brief description of what the substance or mixture is	Enzyme substrate and cathepsin detection reagent.	
ı.za	intended to do:	Enzyme substrate and cathepsin detection reagent.	
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	
		Carlada. 1-000-424-9300 01 +1 703-327-3007. Collect calls accepted	
Sectio	on 2: Hazards identification		
2.1	Classification of the substance or mixture:		
2.1a	Product is a:	Substance.	
2.1b	Classification according to (EC) No. 1272/2008 {CLP}:	Does not meet the criteria for classification.	
2.1c	The most important adverse physiochemical, human	Refer to Sections 9-12.	
2.10	health, and environmental effects:	recipi to decitoria 3 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.	
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:	No information available.	
Section	on 3: Composition/information on ingredients		
3.1	Substance:	Item is a substance.	
	3.1a Chemical identity:	MR-(RR) ₂	
	3.1b Common name, synonyms, etc.:	None.	
	3.1c CAS number and	3.1e % 3.1f Classification according to (EC) No.	
	other unique identifiers: 3.1d EC number:	<u>Concentration:</u> <u>1272/2008 {CLP}:</u>	
	None. None.	100% Not classified.	
0.4	Observational identification in the control of the	Name Income	
3.1g	Chemical identity of any impurity, stabilizing additive,	None known.	
3.1g	or individual constituent other than the main	None known.	
3.1g	or individual constituent other than the main constituent, which is itself classified and which	None known.	
3.1g	or individual constituent other than the main constituent, which is itself classified and which contributes to the classification (such as product	None known.	
3.1g 3.1h	or individual constituent other than the main constituent, which is itself classified and which	None known. None.	

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Soction	on 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.
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.
4.1b	Skin contact:	Get medical attention if any discomfort continues. Wash skin thoroughly with soap and water for several minutes;
7.10	ORIT COTRACT.	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 discomfort continues.
4.1d	Ingestion:	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK
4.10	ingestion.	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 4.2d	Eye contact: Ingestion:	May cause temporary eye irritation. May cause discomfort if swallowed.
4.2u 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.
	•	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.
Contin	n F. Firefighting massures	
5.1	n 5: Firefighting measures 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	Product is not explosive. No dangerous reactions known under normal
	mixture:	conditions of use.
5.2a	Hazardous combustion products:	In case of fire, toxic gases may be formed of carbon monoxide (CO),
		carbon dioxide (CO ₂ ; CO _x). None under normal conditions.
5.2b	Unusual fire & explosion hazards:	No unusual fire or explosion hazards noted.
5.2c 5.3	Protective measures in fire: Advice for firefighters:	Use protective equipment appropriate for surrounding materials. Keep away from heat, hot surfaces, sparks, open flames and other
5.5	Advice for intelligitiers.	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.
Soction	on 6: Accidental release measures	
6.1	Personal precautions, protective equipment, and	Use protective equipment appropriate for surrounding materials.
0.1	emergency procedures:	230 protective equipment appropriate for suffounding materials.
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
	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
0.4	Addison for a grant of	concerned.
6.1c	Advice for emergency responders; personal	Wear suitable protective clothing, gloves and eye or face protection to
	precautions, protective equipment and emergency procedures:	avoid contact; use an approved supplied-air respirator, in case of 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.
0.4	D. C	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.
Castian	7. Handling and stages	
	7: Handling and storage	Do not how the cost of the constitute have have a good and
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.
7.14	mixtures:	Avoid contact with strong dolds and strong chidizers.
7.1b	Advice on general occupational hygiene:	Do not eat, drink, or smoke in work areas. Wash hands after use.
7.10	That too on goneral occupational myglone.	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.
	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.
0.4.1	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.
8.2c	Ventilation controls:	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
0.0:	Other protection	(US) or CEN (EU).
8.2i	Other protection:	Wear appropriate clothing to avoid skin contact. DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift
8.2j	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
8.2k	Thermal hazards:	promptly with soap and water if skin becomes contaminated None known under normal conditions of use.
8.2k 8.2l	Environmental exposure controls:	Not determined.
0.21	Environmental exposure controls.	INOLUGICITIIITEU.
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9.1	Information on basic physical and chemical		
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0.10	properties: Appearance (physical state, color, etc.):	Douder dust	
9.1a 9.1b	Odor:	Powder, dust. No characteristic odor.	
9.1c	Odor threshold:	Not determined.	
9.1d	pH:	Not determined.	
9.1u 9.1e	Melting point/freezing point (°C):	Not determined.	
9.16 9.1f	Initial boiling point and boiling range:	Not determined.	
9.11 9.1g	Flash point (°C):		
9.1 <u>9</u> 9.1h	Evaporation rate:	Not applicable.	
9.11i 9.1i	Flammability (solid, gas):	Not applicable Not determined.	
9.11 9.1j	Upper/lower flammability or explosive limits:	Not determined. Not determined.	
9.1j 9.1k			
9.1k 9.1l	Vapor pressure: Vapor density (Air =1):	Not applicable.	
	Relative density:	Not applicable.	
9.1m		Not determined.	
9.1n	Solubility(ies):	Insoluble in water; soluble in organic solvents. Not determined.	
9.10	Partition coefficient (N-octanol/water):		
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.	
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	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: 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.	
10.6	Hazardous decomposition products:	None under normal conditions.	
	n 11: Toxicological information		
11.1	Information on toxicological effects:		
		I MD /DD\-	
	Name:	MR-(RR) ₂	
11.1a 11.1b	Acute toxicity:	Not determined.	
11.1b 11.1c	Acute toxicity: Skin corrosion/irritation:	Not determined. Not determined.	
11.1b 11.1c 11.1d	Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation:	Not determined.	
11.1b 11.1c 11.1d 11.1e	Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization:	Not determined. Not determined. Not determined. Not determined.	
11.1b 11.1c 11.1d 11.1e 11.1f	Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity:	Not determined. Not determined. Not determined.	
11.1b 11.1c 11.1d 11.1e 11.1f	Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization:	Not determined. Not determined. Not determined. Not determined.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g	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. Not determined.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h	Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity:	Not determined.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i	Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity:	Not determined.	
	Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure:	Not determined.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i	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.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i	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.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k	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.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k 11.1l	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.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k 11.1l	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	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k 11.1l 11.1l	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 high concentrations, dust may irritate throat and respiratory system and cause coughing	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k 11.1l 11.1m 11.1n	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. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k 11.1l 11.1n 11.1n	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 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.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1j 11.1k 11.1l 11.1n 11.1n	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. In high concentrations, dust may irritate throat and respiratory system and cause coughing Dust may irritate skin.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1s 11.1h 11.1i 11.1k 11.1l 11.1n 11.1n 11.1n	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 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.	
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	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 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.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1h 11.1l 11.1n 11.1n 11.1n	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 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. Not determined. Not determined.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1h 11.1l 11.1n 11.1n 11.1n	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 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.	
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	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 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. Not determined. Not determined. Not determined. Not determined.	
11.1b 11.1c 11.1d 11.1e 11.1f 11.1g 11.1h 11.1i 11.1i 11.1i 11.1h 11.1n 11.1n 11.1n 11.1n 11.1n	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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Section	n 12: Ecological information	
12.1	Toxicity:	
12.1a	Name:	MR-(RR) ₂ .
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.
12.0	Other adverse effects.	140 data available.
Section	n 13: Disposal considerations	
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	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.
	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:	
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?:	
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.
Soction	15. Pagulatory information	
15.1	15: Regulatory information Safety, health and environmental	
15.1	regulations/legislation specific for the substance	•
	or mixture:	
15.1a	Regional safety, health and environmental	None known.
10.14	regulations specific for the product in question:	TWOTO KITOWIT.
15.1b	USA SARA Components (such as 302/311/313):	Not listed.
15.1c	USA Massachusetts Right to Know:	Not listed.
15.1d	USA Pennsylvania Right to Know:	Not listed.
15.1e	USA New Jersey Right to Know:	Not listed.
15.1f	USA California Prop. 65 Components:	Not listed.
15.1g	EU Regulation 1907/2006 {REACH}:	
15.1h	Annex XIV substances subject to authorization:	Not listed.
15.1i		
15.1j	Approved code of practice:	Classification and labeling of substances and preparations dangerous
. 5 ,	TEL STATE OF STATE OF PROGRESS.	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
10.11	20 logislation foronoco.	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.
15.2	Chemical safety assessment:	Not required.
15.2a	Other regulatory information:	None.
Section	n 16: Other information	
16.1	Other information:	
16.1a	Date of revision:	26-May-2017
16.1b	SDS number and revision:	F17-6131-3-C
16.1c	Supersedes SDS number and revision:	F17-6131-3-B

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16.1d		es made to the previous version of the SDS:	Reviewed and updated document control numbers.
16.1e		gend to abbreviations and acronyms used in	ACGIH American Conference of Governmental Industrial Hygienists.
	the SDS	5.	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.
DICCI		ents not written out in full elsewhere:	figure stories declared and many not be well for each most in the
DISCL	AIMER:		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
			ble as of the date indicated. However, no warranty guarantee or
		representation is made to its accuracy, re	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