ImmunoChemistry TECHNOLOGIES LLC

SAFETY DATA SHEET (SDS)

according to Regulation (EC) No. 830/2015 amending 1907/2006

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1	**Product identifier:**		Plasma Sample Diluent
1.1a	Other means of identification:		.
1.1b		Alternative product name(s)/ synonyms:	SD2
1.1c		Product number/Catalog #(s):	5123, 694, 695, 696, 697
1.1d		Internal identification:	SD2
1.2	**Relevant identified uses of the substance or mixture and uses advised against:**		Product intended for research use or for further manufacturing into *in vitro* diagnostics reagents only. Not intended for use in human or therapeutics purposes.
1.2a	Brief description of what the substance or mixture is intended to do:		A buffered solution designed to dilute samples and reagents used in ELISAs.
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.

Section 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 {CLP}:		Skin Sens. 1, H317 May cause an allergic skin reaction. Aquatic Chronic 3, H412 Harmful to aquatic life with long lasting effects.
2.1c	The most important adverse physiochemical, human health, and environmental effects:		Refer to Sections 9-12.
2.2	**Label elements:**		.
2.2a	GHS label elements, including precautionary statements:		.
2.2b		Contains:	≤0.0085% of reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).
2.2c	Labeling in accordance with (EC) No. 1272/2008:		.
2.2d	Hazard Pictograms (Hazard Symbols):		 GHS07 Exclamation.
2.2e	Signal word:		Warning.
2.2f	Hazard statements:		H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
2.2g	Precautionary statements:		P261 Avoid breathing mist, vapors, or spray. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing, eye protection, and face protection. P302+P352 If on skin: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical attention. P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.
2.2h	Supplementary precaution statements:		P272 Contaminated work clothing should not be allowed out of the workplace. P363 Wash contaminated clothing before reuse.
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:		None.	
Section 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:		Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).	
	3.2b Common name, synonyms, etc.:		ProClin300 (ProClin® is a registered trademark of Dow Chemical Company)	
	3.2c CAS number and other unique identifiers:	3.2d EC number:	3.2e % Concentration:	3.2f Classification according to (EC) No. 1272/2008 {CLP}:
	CAS: 55965-84-9; Annex VI Index: 613-167-00-5	220-239-6	≤0.0085%	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071
3.2g	Other ingredient:		.	
	3.2h Chemical identity:		Ethylenediaminetetraacetic acid sodium salt dihydrate	
	3.2i Common name, synonyms, etc.:		EDTA	
	3.2j CAS number and other unique identifiers:	3.2k EC number:	3.2l % Concentration:	3.2m Classification according to (EC) No. 1272/2008 {CLP}:
	CAS: 6381-92-6	205-358-3	<5 %	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412
3.2u	Other information on the mixture:		None.	
Section 4: First aid measures				
4.1	**Description of first aid measures:**		If concerned, get medical attention and provide physician with SDS information. Wash contaminated clothing before reuse. Never give anything by mouth to an unconscious person.	
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; 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 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:**		Refer to Sections 2 and 11 for most important known symptoms and effects.	
4.2a	Inhalation:		None known.	
4.2b	Skin contact:		Symptoms may include irritation and redness.	
4.2c	Eye contact:		None known.	
4.2d	Ingestion:		None known.	
4.3	**Indication of any immediate medical attention and special treatment needed:**		No additional information available.	
4.3a	Notes to physician/first responder:		Treat symptomatically. Refer to Sections 5-8 for advice on personal protective equipment.	
Section 5: Firefighting measures				
5.1	**Extinguishing media:**		.	

5.1a	Suitable extinguishing media:	This product is not flammable. Use fire-extinguishing media appropriate for the surrounding materials.
5.1b	Unsuitable extinguishing media:	None known.
5.2	**Special hazards arising from the substance or mixture:**	This product is a liquid and is not flammable. 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), carbon dioxide (CO2; COx), and nitrous gases (NOx). 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:**	.
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:	Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing appartus and protective suit (see Section 8).
Section 6: Accidental release measures		
6.1	**Personal precautions, protective equipment, and emergency procedures:**	.
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 precautions, protective equipment and emergency procedures:	No specific emergency measures are required other than good laboratory hygiene and safety practices. Wear suitable protective clothing, gloves, eye, or 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). Ensure adequate ventilation and control mist. Avoid breathing vapors, mist, or spray. 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.
6.1c	Advice for emergency responders; personal precautions, protective equipment and emergency procedures:	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).
6.2	**Environmental precautions:**	Do not allow to enter drains, sewers, or watercourses. May be harmful to the environment if large amounts are released.
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. Use a licensed waste disposal contractor for disposal (see Section 13). Wash spill area thoroughly with plenty of soap and water. Avoid contact with skin or inhalation of spillage or vapor.
6.4	**Reference to other sections:**	Refer to Sections 8 and 13 for additional information.
Section 7: Handling and storage		
7.1	**Precautions for safe handling/Protective measures:**	Do not handle until all safety precautions have been read and understood. Avoid creation of aerosols or mist. Avoid inhalation of vapors or mist. 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.
7.1a	Prevent handling of incompatible substances or mixtures:	Avoid contact with strong acids and strong oxidizers.
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. 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. Avoid spills and release into the environment; keep away from watercourses.
7.3	**Specific end use(s):**	Product intended for research use or for further manufacturing into *in vitro* diagnostics reagents only. Not intended for use in human or therapeutics purposes.
Section 8: Exposure controls/personal protection		
8.1	**Control parameters:**	.

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.	Not applicable.
8.1b	Appropriate engineering controls:	.
8.1c	Individual protection measures, such as personal protective equipment:	Wear gloves, protective goggles, and lab coat.
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 (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.
8.2l	Environmental exposure controls:	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; clear to light yellow.
9.1b	Odor:	No specific data.
9.1c	Odor threshold:	Not determined.
9.1d	pH:	7.2-7.6
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 determined.
9.1h	Evaporation rate:	Not determined.
9.1i	Flammability (solid, gas):	Not determined.
9.1j	Upper/lower flammability or explosive limits:	Not determined.
9.1k	Vapor pressure:	Not determined.
9.1l	Vapor density (Air =1):	Not determined.
9.1m	Relative density:	Not determined.
9.1n	Solubility(ies):	Soluble in water.
9.1o	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 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.

10.4	**Conditions to avoid:**	To avoid product degradation, avoid exposure to high temperatures or direct sunlight or light.
10.5	**Incompatible materials:**	Strong oxidizing substances. Strong reducing agents. Amines. Mercaptans (thiols).
10.6	**Hazardous decomposition products:**	None under normal conditions.
Section 11: Toxicological information		
11.1	**Information on toxicological effects:**	.
11.1a	Name:	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).
11.1b	Acute toxicity:	Oral LD50 53 mg/kg rat. Dermal LD50: 2800 mg/kg rabbit.
11.1c	Skin corrosion/irritation:	Severe Irritant – Skin test, Human, 0.01 Percent exposure.
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.
11.1l	Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):	.
11.1m	Ingestion:	No known effects noted.
11.1n	Inhalation:	No known effects noted.
11.1o	Skin contact:	Prolonged skin contact may cause mild irritation and/or redness. May cause sensitization by skin contact. Risk of sensitization or allergic reactions among sensitive individuals.
11.1p	Eye contact:	No known effects noted.
11.1q	Symptoms related to the physical, chemical and toxicological characteristics:	May cause sensitization by skin contact.
11.1r	Delayed and immediate effects as well as chronic effects from short and long term exposure:	May elicit severe allergic response even at low concentrations for those individuals that have been sensitized due to subsequent exposure(s).
11.1s	Numerical measures of toxicity (such as acute toxicity estimates):	Not determined.
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.
11.1y	Classification by International Agency for Research on Cancer (IARC):	Not classified.
11.1z	Classification by OSHA 13:	Not classified.
11.1ab	Other information:	None.
Section 12: Ecological information		
12.1	**Toxicity:**	.
12.1a	Name:	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).
12.1b	Ecotoxicity (aquatic and terrestrial, where available):	Harmful to aquatic life with long-lasting effects.
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:**	Mobility in soil is unknown (the product is soluble in water).
12.5	**Results of PBT and vPvB assessment:**	Not determined.
12.6	**Other adverse effects:**	None known.
Section 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 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. Consult a licensed waste contractor for disposal.
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:**	.
14.5a	Is it environmentally dangerous according to UN Model Regulations (IMDG Code, ADR, RID, and ADN)?:	No.
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.
Section 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:	.
15.1b	USA SARA Components (such as 302/311/313):	SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 EHS TPQ or Section 313. SARA 311/312 classification: SKIN SENSITIZATION - Category 1.
15.1c	USA Massachusetts Right to Know:	No Components are listed.
15.1d	USA Pennsylvania Right to Know:	No Components are listed.
15.1e	USA New Jersey Right to Know:	No Components are listed.
15.1f	USA California Prop. 65:	Does not require a Safe Harbor warning under California Prop 65.
15.1g	EU Regulation 1907/2006 {REACH}:	.
15.1h	Annex XIV substances subject to authorization:	Not listed.
15.1i	Substances of very high concern:	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.
15.1l	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, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
15.2	**Chemical safety assessment:**	Not required.
15.2a	Other regulatory information:	SDS complies with Health Canada WHMIS 2015 requirements.
Section 16: Other information		
16.1	**Other information:**	.
16.1a	Date of revision:	05/14/2020
16.1b	SDS number and revision:	F17-5123-2 Version D
16.1c	Supersedes SDS number and revision:	F17-5123-2 Version C
16.1d	Changes made to the previous version of the SDS:	Reviewed and updated information related to ProClin 300; re-classified EDTA according to GHS considering ECHA C&L Notified classifications; updated for Health Canada; miscellaneous updates; updated document control numbers.
16.1e	Key/legend to abbreviations and acronyms used in the SDS:	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. UN United Nations. USA United States of America. vPvB very Persistent very bioaccumulative. WHMIS Workplace Hazardous Materials Information System.
16.1f	Full text of hazard statements and precautionary statements not written out in full elsewhere:	H301 Toxic if swallowed H310 Fatal in contact with skin. H330 Fatal if inhaled. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. EUH071: Corrosive To The Respiratory Tract. H302 Harmful if swallowed, H312 Harmful in contact with skin H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
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