

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 the Product identifier:	Annexin V-FITC
.1a	Other means of identification:	7 unioxani v i i i c
1.1b	Alternative product name(s)/ synonyms:	Annexin V-FITC Reagent (200X), Annexin V
1.1b 1.1c	Product number/Catalog #(s):	6340
1.1d	Internal identification:	Annexin V-FITC
1.1u 1.2	Relevant identified uses of the substance or	For research use only. Not for use in diagnostic procedures.
1.2	mixture and uses advised against:	For research use only. Not for use in diagnostic procedures.
1.2a	Brief description of what the substance or mixture is	Buffered reagent used to measure phosphatidylserine translocation
1.24	intended to do:	and apoptosis in whole cells by flow cytometry.
1.3	Details of the supplier of the SDS:	and apoptosis in whole cells by new cytometry.
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;
1.4	Emergency telephone number.	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
		Gariada. 1 000 424 3000 01 11 700 027 0007. Concet cans accepted
Section	on 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.
2.10	{CLP}:	Does not meet the official for diassilloation.
2.1c	The most important adverse physiochemical, human	Prolonged skin contact may cause redness and irritation. Refer to
	health, and environmental effects:	Sections 4, 9-12.
2.2	Label elements:	None.
2.2a	GHS label elements, including precautionary	140110.
	statements:	•
2.2b	Contains:	
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.
	Other nazarde when de net recat in classification.	The information available.
Section	n 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.
	3.2b Common name, synonyms, etc.:	,
	3.2c CAS number and	3.2e % 3.2f Classification according to (EC) No.
	other unique identifiers: 3.2d EC number:	<u>Concentration:</u> 1272/2008 {CLP}:
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	-	· · · · · · · · · · · · · · · · · · ·
		•
3.2u	Other information on the mixture:	

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		SDS information. Wash contaminated clothing before reuse. Never
1.10	Inhalation	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;
4.10	Skiii contact.	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	Lyo 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
	3	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 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.
		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.
Castia	n F. Firefielding massages	
5.1	n 5: Firefighting measures	This product is not flowmable. Use fire outinguishing modic
5.1	Extinguishing media:	This product is not flammable. Use fire-extinguishing media appropriate for the surrounding materials.
5.1a	Suitable extinguishing media:	Water spray, foam, dry powder, or carbon dioxide.
5.1a 5.1b	Unsuitable extinguishing media:	None known.
5.10	Special hazards arising from the substance or	This product is not flammable. Product is not explosive. No dangerous
J.2	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.
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
	That is a maniginary	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.
	n 6: Accidental release measures	
6.1	Personal precautions, protective equipment, and	Use protective equipment appropriate for surrounding materials.
	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
6 1h	Advise for non emergency personnel personnel	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 procedures:	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
		concerned.
6.1c	Advice for emergency responders; personal	Wear suitable protective clothing, gloves and eye or face protection to
	precautions, protective equipment and emergency	avoid contact; use an approved supplied-air respirator, in case of
	procedures:	emergency (also refer to Section 8).
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

Annexin V-FITC SDS; Doc# F17-6340-2-C; Effective: 08/08/2017; Supersedes: F17-6340-2-B; 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. 6.4 Reference to other sections: Refer to Sections 8 and 13 for additional information. 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 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. For research use only. Not for use in diagnostic procedures. 7.3 Specific end use(s): Section 8: Exposure controls/personal protection **Control parameters:** 8.1 8.1a Occupational exposure limits, such as chemical None. 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 suitable protective gloves. Wear protective goggles. Wear lab protective equipment: coat with full coverage clothing. 8.1d Safety symbols: 8.2 **Exposure controls:** 8.2a Process conditions: Provide eyewash station. Ensure that eyewash stations and safety showers are proximal to the 8.2b Engineering controls: workstation location. Provide adequate ventilation. 8.2c Ventilation controls: 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. Hand protection: Use suitable protective gloves if risk of skin contact. 8.2g 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 Thermal hazards: None known under normal conditions of use. 8.21 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; light green solution. 9.1b Odor: No characteristic odor.

No data available.

9.1c

Odor threshold:

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9.1d	pH:	7.0 - 8.0
9.1e	Melting point/freezing point (°C):	No data available.
9.1f	Initial boiling point and boiling range:	No data available.
9.1g	Flash point (°C):	No data available.
9.1h	Evaporation rate:	No data available.
9.1i	Flammability (solid, gas):	No data available.
9.1j	Upper/lower flammability or explosive limits:	No data available.
9.1k	Vapor pressure:	No data available.
9.11	Vapor density (Air =1):	No data available.
9.1m	Relative density:	No data available.
9.1n	Solubility(ies):	No data available.
9.10	Partition coefficient (N-octanol/water):	No data available.
9.1p	Auto-ignition temperature (°C):	No data available.
9.1q	Decomposition temperature (°C):	No data available.
9.1r	Viscosity:	No data available.
9.1s	Explosive properties:	No data available.
9.1t	Oxidizing properties:	No data available.
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 recommended storage 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.
Section	11: Toxicological information	
11.1	Information on toxicological effects:	
11.1a	Name:	Annexin V-FITC
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	
11.11		May enter by skin and/or eye contact; inhalation of vapors/mist/dust.
	(inhalation, ingestion, skin and eye contact):	
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.
	toxicological characteristics:	
11.1r	Delayed and immediate effects as well as chronic	Not determined.
,	effects from short and long term exposure:	
11.1s	Numerical measures of toxicity (such as acute	Not determined.
11.15		NOL UGLETTIMIEU.
	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.
11.1y	Classification by International Agency for Research	Not classified.
	on Cancer (IARC):	
11.1z	Classification by OSHA 13:	Not classified.
11.1ab	Other information:	None.
11.100	Caron information.	THORIO.
	40 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	12: Ecological information	
12.1	Toxicity:	
12.1a	Name:	Annexin V-FITC.
12.1b	Ecotoxicity (aquatic and terrestrial, where available):	No data available.
12.10	Persistence and degradability:	
	reisistence and dediadability.	There are no data on the degradability of this product.
12.2		

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12.3	Bioaccumulative potential:	Does not bioaccumulate.
12.4	Mobility in soil: Results of PBT and vPvB assessment:	Mobility in soil is unknown (the product is soluble in water).
12.5 12.6	Other adverse effects:	Not determined. No data available.
12.0	Outer duverse enects.	ino uala avallabie.
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.
Section	n 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	
11 5h	ADN)?:	No.
14.5b	Is it a marine pollutant according to the IMDG code?:	INO.
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:	11
14.7a	Other information:	The product is not considered a dangerous good for transport.
14.7b	Classification for other modes of transport:	Contact supplier.
•	45.5	
	n 15: Regulatory information	
15.1	Safety, health and environmental	•
	regulations/legislation specific for the substance or mixture:	
15.1a	Regional safety, health and environmental	Not classified.
10.14	regulations specific for the product in question:	Tvot oldoomod.
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}:	Not listed
15.1h	Annex XIV substances subject to authorization:	Not listed.
15.1i 15.1j	Substances of very high concern: Approved code of practice:	Not listed. Classification and labeling of substances and preparations dangerous
10.1]	Approved code or practice.	for supply. Safety data sheets for substances and preparations.
15.1k	Guidance notes:	Workplace exposure limits EH40.
15.1k	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:	None.
	n 16: Other information	
16.1	Other information:	
16.1a	Date of revision:	08/08/2017
	SDS number and revision:	F17-6340-2-C
16.1b		E47 0040 0 B
16.1b 16.1c	Supersedes SDS number and revision:	F17-6340-2-B
16.1b 16.1c 16.1d	Supersedes SDS number and revision: Changes made to the previous version of the SDS:	Updated version letter/revision date; minor corrections
16.1b 16.1c	Supersedes SDS number and revision: Changes made to the previous version of the SDS: Key/legend to abbreviations and acronyms used in	Updated version letter/revision date; minor corrections ACGIH American Conference of Governmental Industrial Hygienists.
16.1b 16.1c 16.1d	Supersedes SDS number and revision: Changes made to the previous version of the SDS:	Updated version letter/revision date; minor corrections ACGIH American Conference of Governmental Industrial Hygienists. ADN European Provisions concerning the International Carriage of
16.1b 16.1c 16.1d	Supersedes SDS number and revision: Changes made to the previous version of the SDS: Key/legend to abbreviations and acronyms used in	Updated version letter/revision date; minor corrections ACGIH American Conference of Governmental Industrial Hygienists.

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		Atmoshi V 1110 000, 200#111 0040 2 0, 2110	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.
	statem	ents not written out in full elsewhere:	
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
			ole as of the date indicated. However, no warranty guarantee or
			eliability, or completeness. It is the user's responsibility to satisfy
		himself as to the suitability of such inforr	nation for his own particular use.

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

	Identification of the substance/mixture and of oduct identifier:	10X Binding Buffer
Oth	her means of identification:	- correming - amor
	Alternative product name(s)/ synonyms:	10X BB, BB, Annexin Binding Buffer, Binding Buffer
	Product number/Catalog #(s):	6341
	Internal identification:	10X Binding Buffer
Rel	elevant identified uses of the substance or	For research use only. Not for use in diagnostic procedures.
	xture and uses advised against:	To research use only. Not for use in diagnostic procedures.
	ief description of what the substance or mixture is	10X Concentrated Binding Buffer used for Annexin-V binding in
	ended to do:	Annexin V-FITC Assay Kits.
	etails of the supplier of the SDS:	
	Name:	ImmunoChemistry Technologies, LLC (ICT)
	Address:	9401 James Avenue South, Suite 155
	City, State, Zip, Country	Bloomington, MN 55431-2500 USA
	Phone number:	1-800-829-3194 and 952-888-8788
	Fax number:	952-888-8988
	Website:	www.immunochemistry.com
	Email:	help@immunochemistry.com
	Contact person at ICT:	Quality Documentation Department
Em	nergency 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 accepte
	Hazards identification	
	assification of the substance or mixture:	
	oduct is a:	Mixture.
	assification according to (EC) No. 1272/2008	Does not meet the criteria for classification.
{CL	LP}:	
	e most important adverse physiochemical, human	
	alth, and environmental effects:	Sections 4, 9-12.
	bel elements:	None.
	HS label elements, including precautionary	•
stat	atements:	
1 -1-	Contains:	No.
	beling in accordance with (EC) No. 1272/2008:	None.
	azard Pictograms (Hazard Symbols):	None.
	gnal word:	None.
	azard statements:	None.
	ecautionary statements:	None.
_	pplementary precaution statements:	None.
	her hazards: bes the chemical meet the criteria for PBT or vPvB3	No additional information available.
	her hazards which do not result in classification:	Not applicable.No information available.
Oth	nei nazarus wilicii do not result in classification.	No information available.
3.	Composition/information on ingredients	
	ibstance:	Item is a mixture therefore Section 3.1 is not applicable; see Section
Jul	ibstance.	3.2.
		U.E.
Mix	xture:	Item is a mixture.
	e chemical identity and concentration or	
	ncentration ranges of all ingredients which are	
	zardous and are present above their cut-off levels:	:
	2a Chemical identity:	No ingredients identified for reporting in this section.
	2b Common name, synonyms, etc.:	
	B.2c CAS number and	3.2e % 3.2f Classification according to (EC) No.
	ther unique identifiers: 3.2d EC number:	<u>Size 76</u> <u>Size 6 dassined for decording to (ES) No.</u> <u>Concentration:</u> 1272/2008 (CLP):
<u> </u>		<u> </u>
		· · · · · · · · · · · · · · · · · · ·
Oth	her information on the mixture:	1.
J.11		
4:	First aid measures	
4:	her information on the mixture: First aid measures escription of first aid measures:	If concerned, get medical attention/advice and

10X Binding Buffer SDS; Doc# F17-6341-2-C; Effective: 08/08/2017; Supersedes: F17-6341-2-B; Page 2 of 6

	10A billuling buller 3D3, D0C# F17-0341-2-C, EII	CDS information Week contaminated elething before rouge. Never
		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
441	la cation.	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 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.
4.0	Nietes to who sising It'	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	n 5: Firefighting measures	
5.1	Extinguishing media:	This product is not flammable. 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	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.
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
5.3a	Special firefighting procedures:	ignition sources. No smoking. No specific firefighting procedure given.
5.3b	Special protective equipment and precautions for	Wear full protective clothing, including self-contained breathing
0.00	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.
	n 6: Accidental release measures	
6.1	Personal precautions, protective equipment, and	Use protective equipment appropriate for surrounding materials.
0.1	emergency procedures:	N g
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,
	F	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
0.1		concerned.
6.1c	Advice for emergency responders; personal	Wear suitable protective clothing, gloves and eye or face protection to
	precautions, protective equipment and emergency	avoid contact; use an approved supplied-air respirator, in case of
6.2	procedures: Environmental precautions:	emergency (also refer to Section 8).
6.2	Environmental precautions: Methods and materials for containment and	Do not allow to enter drains, sewers, or watercourses. Contain any spills with dikes or absorbent materials to prevent
0.3	clean up:	migration and entry into sewers or water sources. Place in a suitable
1		i illialadoli alia eliliv illo sewels di walei suulles. Flale III a sulladie
	ordari ap.	container for disposal in accordance with local waste regulations (see

10X Binding Buffer SDS; Doc# F17-6341-2-C; Effective: 08/08/2017; Supersedes: F17-6341-2-B; 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. 6.4 Refer to Sections 8 and 13 for additional information. Reference to other sections: 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 Avoid contact with halogenated hydrocarbons, strong acids, strong Prevent handling of incompatible substances or mixtures: oxidizers, and metals. 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 Store in cool place. Keep container tightly closed in a dry and wellventilated place. Containers which are opened must be carefully incompatibilities: 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 None. 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 suitable protective gloves. Wear protective goggles. Wear lab protective equipment: coat with full coverage clothing. 8.1d Safety symbols: 8.2 **Exposure controls:** 8.2a Process conditions: Provide eyewash station. Ensure that eyewash stations and safety showers are proximal to the 8.2b Engineering controls: workstation location. Provide adequate ventilation. 8.2c Ventilation controls: 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. Hand protection: Use suitable protective gloves if risk of skin contact. 8.2g 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. 8.21 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.): Clear liquid 9.1b Odor: No characteristic odor.

No data available.

9.1c

Odor threshold:

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9.1d	pH:	7.0 - 8.0
9.1e	Melting point/freezing point (°C):	No data available.
9.1f	Initial boiling point and boiling range:	No data available.
9.1g	Flash point (°C):	No data available.
9.1h	Evaporation rate:	No data available.
9.1i	Flammability (solid, gas):	No data available.
9.1j	Upper/lower flammability or explosive limits:	No data available.
9.1k	Vapor pressure:	No data available.
9.11	Vapor density (Air =1):	No data available.
9.1m	Relative density:	No data available.
9.1n	Solubility(ies):	No data available.
9.10	Partition coefficient (N-octanol/water):	No data available.
9.1p	Auto-ignition temperature (°C):	No data available.
9.1q	Decomposition temperature (°C):	No data available.
9.1r	Viscosity:	No data available.
9.1s	Explosive properties:	No data available.
9.1t	Oxidizing properties:	No data available.
9.2	Other information:	None.
9.2a	Other physical or chemical parameters:	None.
	10: Stability and reactivity	
10.1	Reactivity:	No data available.
10.2	Chemical stability:	Stable under normal recommended storage 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		
10.0	Hazardous decomposition products:	None under normal conditions.
	11: Toxicological information	
11.1	Information on toxicological effects:	
11.1a	Name:	10X Binding 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		way enter by skin and/or eye contact, initial attorn or vapors/mist/dust.
	(inhalation, ingestion, skin and eye contact):	
11.1m	Ingestion:	May cause discomfort if swallowed.
11.1n	Inhalation:	In high concentrations, vapors may irritate throat and respiratory
		system and cause coughing.
11.10	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.
4	toxicological characteristics:	. 15 Specimo of improvino notodi.
11 1-		Not determined
11.1r	Delayed and immediate effects as well as chronic	Not determined.
	effects from short and long term exposure:	No. 14
11.1s	Numerical measures of toxicity (such as acute	Not determined.
	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.
11.1y	Classification by International Agency for Research	Not classified.
	on Cancer (IARC):	
11.1z	Classification by OSHA 13:	Not classified.
11.1ab	Other information:	None.
Section	12: Ecological information	
12.1		
	Toxicity:	40V Dinding Duffer
12.1a	Name:	10X Binding Buffer.
12.1b	Ecotoxicity (aquatic and terrestrial, where available):	No data available.
12.2	Persistence and degradability:	There are no data on the degradability of this product.

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12.3	Bioaccumulative potential:	Does not bioaccumulate.
12.4	Mobility in soil: Results of PBT and vPvB assessment:	Mobility in soil is unknown (the product is soluble in water).
12.5 12.6	Other adverse effects:	Not determined. No data available.
12.0	Other auverse eliects.	ino data availabie.
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.
	14: Transport information	
14.1	UN number:	Not applicable.
14.2	UN proper shipping name:	Not applicable.
14.3 14.4	Transport hazard class(es): Packing group:	Not applicable. Not applicable.
14.5	Environmental hazards:	Not applicable.
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 14.7	Special precautions for user: Transport in bulk according to Annex II of MARPOL and the IBC code:	None known. 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	Not classified.
15.14	regulations specific for the product in question:	Not classified.
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}:	Not listed
15.1h 15.1i	Annex XIV substances subject to authorization: Substances of very high concern:	Not listed. 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, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
15.2	Chemical safety assessment:	Not required.
15.2a	Other regulatory information:	None.
Section	16: Other information Other information:	
16.1a	Date of revision:	08/08/2017
16.1b	SDS number and revision:	F17-6341-2-C
16.1c	Supersedes SDS number and revision:	F17-6341-2-B
16.1d	Changes made to the previous version of the SDS:	Updated version letter/revision date; minor corrections.
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.

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		Tox Billianing Barror GBG, BGG# 1 11 GG 11 2 G 21	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	Full tex	t of hazard statements and/or precautionary	All statements were written out in full.
		ents not written out in full elsewhere:	
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
			eliability, or completeness. It is the user's responsibility to satisfy
		himself as to the suitability of such inform	

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 the	
	Product identifier:	Propidium Iodide
1.1a	Other means of identification:	
1.1b	Alternative product name(s)/ synonyms:	Propidium Iodide, PI
1.1c	Product number/Catalog #(s):	557, 638
1.1d 1.2	Internal identification: Relevant identified uses of the substance or	Propidium Iodide; PI
1.2	mixture and uses advised against:	For research use only. Not for use in diagnostic procedures.
1.2a	Brief description of what the substance or mixture is	Intercalating fluorescent red reagent that is primarily used to identify
1.24	intended to do:	necrotic and apoptotic 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.
		Canada. 1-000-424-9300 01 +1 703-327-3007. Collect calls accepted.
Section	on 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	
0.01	statements:	
2.2b	Contains:	None
2.2c	Labeling in accordance with (EC) No. 1272/2008: Hazard Pictograms (Hazard Symbols):	None.
2.2d 2.2e	Signal word:	None.
2.2e 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:	PI contains a low concentration of Phenanthridinium, 3,8-diamino-5-[3-
		(diethylmethylammonio)propyl]-6-phenyl-, diiodide (CAS 25535-16-4)
		which is below the threshold for reporting. PI 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.
Cont!	n 2. Composition/information on in the literature	
Section 3.1	n 3: Composition/information on ingredients Substance:	Itam is a mixture therefore Section 2.1 is not applicable; and Castian
J. I	Jupatance.	Item is a mixture therefore Section 3.1 is not applicable; see Section 3.2.
3.2	Mixture:	Item is a mixture.
J. <u> </u>	The chemical identity and concentration or	Nomino a minitaro.
	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.
	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
	I.	give anything by mouth to an unconscious person.

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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;
4.10	Skin contact.	
		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
0	Lyo comacu	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	Most important symptoms and effects, both south	
4.2	Most important symptoms and effects, both acute	PI is a suspected mutagen at high concentrations. Prolonged skin
	and delayed:	contact may cause redness and irritation. Because of the small
		quantity of product, the health hazard is small.
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.
	•	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
1 .5a	Notes to physician/ilist responder.	
		protective equipment.
Sectio	n 5: Firefighting measures	
5.1	Extinguishing media:	This product is not flammable. Use fire-extinguishing media
		appropriate for the surrounding materials.
5.1a	Suitable extinguishing media:	Water spray, foam, dry powder, or carbon dioxide.
5.1a 5.1b		
5 1h	Unsuitable extinguishing media:	None known.
5.10	Special hazards arising from the substance or	This product is not flammable. Product is not explosive. No dangerous
5.2	Special hazards arising from the substance or mixture:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use.
5.2 5.2a	Special hazards arising from the substance or mixture: Hazardous combustion products:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. None under normal conditions.
5.2a 5.2b	Special hazards arising from the substance or mixture: Hazardous combustion products: Unusual fire & explosion hazards:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. None under normal conditions. No unusual fire or explosion hazards noted.
5.2a 5.2b 5.2c	Special hazards arising from the substance or mixture: Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. None under normal conditions. No unusual fire or explosion hazards noted. Use protective equipment appropriate for surrounding materials.
5.2a 5.2b	Special hazards arising from the substance or mixture: Hazardous combustion products: Unusual fire & explosion hazards:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. 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
5.2a 5.2b 5.2c	Special hazards arising from the substance or mixture: Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. None under normal conditions. No unusual fire or explosion hazards noted. Use protective equipment appropriate for surrounding materials.
5.2a 5.2b 5.2c 5.3	Special hazards arising from the substance or mixture: Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. 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.
5.2a 5.2b 5.2c 5.3 5.3a	Special hazards arising from the substance or mixture: Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters: Special firefighting procedures:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. 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.
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5.2a 5.2b 5.2c 5.3 5.3a 5.3b Sectio 6.1 6.1a	Special hazards arising from the substance or mixture: 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:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. 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.
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5.2a 5.2b 5.2c 5.3c 5.3a 5.3b Section 6.1a 6.1b	Special hazards arising from the substance or mixture: Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters: Special firefighting procedures: Special protective equipment and precautions for firefighters: Personal precautions, protective equipment, and emergency procedures: General release measures: Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures: Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures: Advice for emergency responders; personal precautions, protective equipment and emergency procedures:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. 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).
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5.2a 5.2b 5.2c 5.3c 5.3a 5.3b Section 6.1a 6.1b	Special hazards arising from the substance or mixture: Hazardous combustion products: Unusual fire & explosion hazards: Protective measures in fire: Advice for firefighters: Special firefighting procedures: Special protective equipment and precautions for firefighters: Personal precautions, protective equipment, and emergency procedures: General release measures: Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures: Advice for non-emergency personnel; personal precautions, protective equipment and emergency procedures: Advice for emergency responders; personal precautions, protective equipment and emergency procedures:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. 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.
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5.2a 5.2b 5.2c 5.3c 5.3a 5.3b Section 6.1 6.1a 6.1c	Special hazards arising from the substance or mixture: 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: Advice for emergency responders; personal precautions, protective equipment and emergency procedures: Environmental precautions:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use. 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.

Propidium Iodide SDS; Doc# F17-557-2-D; Effective: 05/12/2017; Supersedes: F17-557-2-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. 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 strong acids and strong oxidizers. Prevent handling of incompatible substances or 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. Ensure that eyewash stations and safety showers are proximal to the Engineering controls: 8.2b workstation location. Provide adequate ventilation. 8.2c Ventilation controls: Refer to Section 5 for additional information. 8.2d Reference to other sections: 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. 8.21 Environmental exposure controls: Not determined.

9.1 Information on basic physical and chemical properties: . 9.1a Appearance (physical state, color, etc.): Liquid; clear pink. 9.1b Odor: No characteristic odor. 9.1c Odor threshold: Not determined.	Section 9: Physical and chemical properties			
9.1b Odor: No characteristic odor.	9.1	·		
	9.1a	Appearance (physical state, color, etc.):	Liquid; clear pink.	
9.1c Odor threshold: Not determined.	9.1b	Odor:	No characteristic odor.	
	9.1c	Odor threshold:	Not determined.	

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9.1d	pH:	4.5-6.5
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.
3.Za	Other physical of chemical parameters.	None.
	10: Stability and reactivity	
10.1	Reactivity:	No data available.
10.2	Chemical stability:	Stable under normal temperature conditions.
	Destrict of a control of	
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:	Strong oxidizing substances.
10.6	Hazardous decomposition products:	None under normal conditions.
	. 44	
	11: Toxicological information	
11.1	Information on toxicological effects:	
11.1a	Name:	Propidium Iodide.
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.
	(inhalation, ingestion, skin and eye contact):	
44.4		
11.1m	Ingestion:	May cause discomfort if swallowed.
11.1n	Inhalation:	In high concentrations, vapors may irritate throat and respiratory
		system and cause coughing.
111-	Chin contact	
11.10	Skin contact:	Liquid may irritate skin.
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.
4		specino oj riptorilo riotodi
	toxicological characteristics:	
11.1r	Delayed and immediate effects as well as chronic	Not determined.
	effects from short and long term exposure:	
11 1-		Not determined
11.1s	Numerical measures of toxicity (such as acute	Not determined.
	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.
11.1y	Classification by International Agency for Research	Not classified.
	on Cancer (IARC):	
11.1z	Classification by OSHA 13:	Not classified.
11.1ab	Other information:	PI 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.
		or product, the health hazard is small.
Section	12: Ecological information	
12.1	Toxicity:	
	i	Propidium Iodido
12.1a	Name:	Propidium Iodide.

		tive: 05/12/2017; Supersedes: F17-557-2-C; Page 5 of 6
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:	The product is soluble in water.
12.5	Results of PBT and vPvB assessment:	Not determined.
12.6	Other adverse effects:	No data available.
Castlan	42. Diamonal considerations	
	13: Disposal considerations Waste treatment methods:	M/han handling weeks association should be used to the cofety
13.1	waste treatment methods:	When handling waste, consideration should be made to the safety
12.10	Description of wests residues and information on	precautions applying to handling of the product. Dispose of waste and residues in accordance with local authority
13.1a	Description of waste residues and information on 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.
	packaging.	(exposure controls and personal protection) of the 3D3.
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	The product is not covered by these regulations.
	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.
14.7a	MARPOL and the IBC code: Other information:	The product is not considered a dengarous good for transport
		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	
13.1	regulations/legislation specific for the substance	•
	or mixture:	
15.1a	Regional safety, health and environmental	
10.14	regulations specific for the product in question:	·
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	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.
15.11	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, 93/67/EEC, 93/105/EC and
45.0	Ohamiaal aafatu a	2000/21/EC, including amendments.
15.2	Chemical safety assessment:	Not required.
15.2a	Other regulatory information:	None.
Section	16: Other information	
16.1	Other information:	
16.1a	Date of revision:	12-May-2017
16.1b	SDS number and revision:	F17-557-2-D
16.1c	Supersedes SDS number and revision:	F17-557-2-C
16.1d	Changes made to the previous version of the SDS:	Reviewed and updated document control numbers.
16.1e	Key/legend to abbreviations and acronyms used in	ACGIH American Conference of Governmental Industrial Hygienists.
	the SDS:	ADN European Provisions concerning the International Carriage of
		Dangerous Goods by Inland Waterway.

	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 us
	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.
6.1f Full text of hazard statements and/or precautionary	All statements were written out in full.
statements not written out in full elsewhere:	

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