# **SAFETY DATA SHEET**



Sterilant Solution B

Section 1. Identification		
Product name	: Sterilant Solution B	
Other means of identification	: Not available.	
Product type	: Liquid.	
Product part number	: R7468	
Kit name	: Aquamax Sterilant	
Kit part number	: R8156	
Validation date	: 03/14/2018	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: For R&D use only.	
Area of application	: Professional applications.	
Manufacturer	: MOLECULAR DEVICES, LLC 3860 N First Street San Jose, CA 95134 USA	
e-mail address of person responsible for this SDS	: msdsinquiry@moldev.com	
Emergency telephone number (with hours of operation)	: CHEMTREC (24 hours): 1-800-424-9300 (USA/Canada), +1 703-527-3887 (Outside USA/Canada)	

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>		
Classification of the substance or mixture	:CORROSIVE TO METALS - Category 1H314SKIN CORROSION - Category 1H318SERIOUS EYE DAMAGE - Category 1		
	Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 70% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 70% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 70%		
GHS label elements			
Hazard pictograms			
Signal word	: Danger		
Hazard statements	<ul> <li>H290 - May be corrosive to metals.</li> <li>H314 - Causes severe skin burns and eye damage.</li> </ul>		
Precautionary statements			
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### Section 2. Hazards identification

Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.</li> <li>P234 - Keep only in original container.</li> <li>P264 - Wash hands thoroughly after handling.</li> </ul>
Response	<ul> <li>P390 - Absorb spillage to prevent material damage.</li> <li>P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.</li> <li>P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.</li> <li>P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.</li> <li>P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.</li> </ul>
Storage	<ul> <li>P405 - Store locked up.</li> <li>P406 - Store in a corrosion resistant container with a resistant inner liner.</li> </ul>
Disposal	: <b>P</b> 501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Do not taste or swallow. Wash thoroughly after handling.
Hazards not otherwise classified	: Causes digestive tract burns.

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

Ingredient name	Other names	%	CAS number
sodium hypochlorite, solution	-	≥50 - ≤75	7681-52-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

### Section 4. First aid measures

Description of necessary	<u>y first aid measures</u>
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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### Section 4. First aid measures

Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

Potential acute health effect	<u>ts</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns.
Ingestion	: Corrosive to the digestive tract. Causes burns.
<u>Over-exposure signs/symp</u>	<u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate med	ical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it or wear gloves

See toxicological information (Section 11)

before removing it, or wear gloves.

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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### Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from acids. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name			Exposure limit	S	
sodium hypochlorite, solution			AIHA WEEL (United States, 10/2011). STEL: 2 mg/m <sup>3</sup> 15 minutes.		
Appropriate engineering controls	local exhaus	ations generate dust, fu st ventilation or other er taminants below any re	igineering controls to	keep worker expo	
Environmental exposure controls				In some	
Individual protection measur	<u>'es</u>				
Hygiene measures	eating, smol Appropriate Wash conta	s, forearms and face the king and using the lava techniques should be u minated clothing before close to the workstatio	tory and at the end of ised to remove potent reusing. Ensure that	the working period ially contaminated	d. I clothing.
Eye/face protection	assessment gases or dus the assessm	ear complying with an a indicates this is necess sts. If contact is possib nent indicates a higher d. If inhalation hazards	sary to avoid exposure le, the following prote degree of protection:	e to liquid splashe ction should be we chemical splash g	s, mists, orn, unless goggles and/
Skin protection					
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# Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid. [Clear.]
Color	: Not available.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: 12.3 to 12.6
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: 🖉losed cup: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not applicable.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Density	: Not available.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Kinematic (40°C (104°F)): Not applicable.
Flow time (ISO 2431)	: Not available.

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### Section 10. Stability and reactivity

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Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Fazardous reactions or instability may occur under certain conditions of storage or use. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: acids metals
Hazardous decomposition	: Contact with acids liberates toxic gas.

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

products

Not available.

#### Irritation/Corrosion

Product/ingredient name	Res	ult		Specie	S	Score	Exposure	Observation
Sodium hypochlorite, solution	Eye	s - Mild irr	itant	Rabbit		-	1.31	-
	Eve	s - Modera	ate irritant	Rabbit		_	milligrams 10 milligrams	_
Considiration	Lyc			Rubbit			10 milgrams	
Sensitization								
Not available.								
<u>Mutagenicity</u>								
<b>Conclusion/Summary</b>	: No	ot available	Э.					
<u>Carcinogenicity</u>								
Conclusion/Summary	: No	ot available	Э.					
<u>Classification</u>								
Product/ingredient name		OSHA	IARC	;	NTP			
sodium hypochlorite, solution		-	3		-			
Reproductive toxicity			ł					
Conclusion/Summary	: No	ot available	Э.					
<u>Teratogenicity</u>								
Conclusion/Summary	: No	ot available	Э.					
Specific target organ toxicity	(sin	gle expos	ure)					
Not available.								
Specific target organ toxicity	(rep	eated exp	<u>oosure)</u>					
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# Section 11. Toxicological information

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure	: Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects	<u>3</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
<u>Short term exposure</u> Potential immediate effects	<ul> <li>ts and also chronic effects from short and long term exposure</li> <li>Not available.</li> </ul>
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Numerical measures of toxic	<u>ity</u>
Acute toxicity estimates	
Not available.	
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### Section 11. Toxicological information

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
sodium hypochlorite, solution	Acute EC50 0.67 mg/l Marine water	Algae - Phaeodactylum tricornutum - Exponential growth phase	96 hours
	Acute LC50 56400 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
	Acute LC50 32 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 32 µg/l Marine water	Fish - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 0.5 mg/l Marine water	Algae - Isochrysis galbana - Exponential growth phase	96 hours
	Chronic NOEC 0.1 ppm Fresh water	Fish - Cyprinus carpio - Young	30 days

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN1791	UN1791	UN1791
UN proper shipping name	Hypochlorite solutions	FYPOCHLORITE SOLUTION	Hypochlorite solution
Transport hazard class(es)	8	8	8
Packing group	11	II	II
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.

DOT Classification	:	Reportable quantity142.86 lbs / 64.857 kg. Package sizes shipped in quantities lessthan the product reportable quantity are not subject to the RQ (reportable quantity)transportation requirements.Limited quantity Yes.Packaging instructionExceptions: 154. Non-bulk: 202. Bulk: 242.Quantity limitationPassenger aircraft/rail: 1 L. Cargo aircraft: 30 L.Special provisions148, A7, B2, B15, IB2, IP5, N34, T7, TP2, TP24
IMDG	:	The marine pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ . Emergency schedules F-A, S-B
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations. Quantity limitation Passenger and Cargo Aircraft: 1 L. Packaging instructions: 851. Cargo Aircraft Only: 30 L. Packaging instructions: 855. Limited Quantities - Passenger Aircraft: 0.5 L. Packaging instructions: Y840. Special provisions A3, A803
Special precautions for user	:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according	:	Not available.

to Annex II of MARPOL and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations	United Stat	CDR Exempt/Partial exe res inventory (TSCA 8b er Act (CWA) 311: sodiu	): All components are	e listed or exempted.	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed				
Clean Air Act Section 602 Class I Substances	: Not listed				
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### Section 15. Regulatory information

Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	

**Composition/information on ingredients** 

No products were found.

### SARA 304 RQ

- SARA 311/312
- Classification : CORROSIVE TO METALS Category 1 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1

: Not applicable.

HNOC - Corrosive to digestive tract

#### **Composition/information on ingredients**

Name	%	Classification
sodium hypochlorite, solution		SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract

#### SARA 313

Not applicable.

#### State regulations

**Massachusetts** 

- The following components are listed: SODIUM HYPOCHLORITE; HOUSEHOLD BLEACH
  - : The following components are listed: Sodium hypochlorite
- New York New Jersey

- : The following components are listed: SODIUM HYPOCHLORITE; HYPOCHLOROUS
- Pennsylvania
- ACID, SODIUM SALT : The following components are listed: HYPOCHLOROUS ACID, SODIUM SALT

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

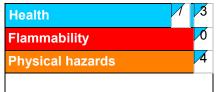
### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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### Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification		Justification					
Met. Corr. 1, H290 Skin Corr. 1, H314 Eye Dam. 1, H318		Expert judgment On basis of test data On basis of test data					
History							
Date of issue/Date of revision	: 03/14/2018						
Date of previous issue	: 03/26/2014						
Version	: 2						
Prepared by	: Sphera Solutions						
Key to abbreviations	BCF = Bioconcentration Fac GHS = Globally Harmonized IATA = International Air Tran IBC = Intermediate Bulk Con IMDG = International Maritim LogPow = logarithm of the o	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973					

as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

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### Section 16. Other information

References

: HCS (U.S.A.)- Hazard Communication Standard International transport regulations

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.