Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

HORIBA Advanced Techno

SAFETY DATA SHEET

00815 EU

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

1.1 Product identifier

Product name Product code

: 500-CA-ISA (Ionic strength adjuster for calcium ion selective electrode)

SDS Drawing Code

: 3200697178,3200700184

: M002927

1.2 Relevant identified uses of the substance or mixture and uses advised against

dentified uses	
onic strength adjuster	
Uses advised against	
Not available.	

1.3 Details of the supplier of the safety data sheet

HORIBA Advanced Techno Co., Ltd. 31, Miyanonishi-cho, Kisshoin, Minami-ku, Kyoto, 601-8306 Japan Tel: +81-75- 321-7184

HORIBA Europe GmbH Hans-Mess-Str.6, D-61440, Oberursel, Germany Tel: +49 6172 1396 0

e-mail address of person : techinfo.hor@jp.horiba.com responsible for this SDS

1.4 Emergency telephone number National advisory body/Poison Center

Telephone number United : +44 (0)20 7771 5310 Kingdom (UK)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture **Product definition** : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. Ingredients of unknown : Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity toxicity: 16% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 16% 2.2 Label elements Hazard pictograms

SECTION 2: Hazards identification

Signal word	:	Warning
Hazard statements	:	Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precautionary statements		
General	:	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	:	Wear eye or face protection. Avoid release to the environment. Wash hands thoroughly after handling.
Response	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Keep cool and protect from sunlight. Store locked up.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	-	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Other hazards which do		None known

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

Identifiers	%	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
235-186-4 : 12125-02-9 x: 017-014-00-8		Eye Irrit. 2, H319	[1]
	235-186-4 : 12125-02-9	235-186-4 16 : 12125-02-9	235-186-4 16 Acute Tox. 4, H302 212125-02-9 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid I	measures
Eye contact	: 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. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: 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. Get medical attention if adverse health effects persist or are severe. 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.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effectsEye contact: Causes serious eye irritation.

Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
10 kodio atione of our sim	mediate mediael attention and appeals treatment peeded

4.3 Indication of any immedia	te medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing	۰.	Use an extinguishing agent suitable for the surrounding fire.
media	1	
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising f	rom	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: nitrogen oxides halogenated compounds
5.3 Advice for firefighters		
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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. Avoid breathing 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".
6.2 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and materials for	containment 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. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 6: Accidental release measures

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
See Section 15 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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.

7.2 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. 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.

7.3 Specific end use(s)

Recommendations Industrial sector specific solutions

: Not available.

pecific : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name		Exposure limit values			
ammonium chloride		EH40/2005 WELs (United Kingdom (UK), 12/2011 STEL: 20 mg/m³ 15 minutes. Form: Fume TWA: 10 mg/m³ 8 hours. Form: Fume).		
Recommended monitoring procedures	atmosphere or b of the ventilation protective equip the following: E the assessment limit values and atmospheres - C exposure to che (Workplace atm for the measure	ontains ingredients with exposure limits, personal, wo biological monitoring may be required to determine th or other control measures and/or the necessity to us ment. Reference should be made to monitoring star uropean Standard EN 689 (Workplace atmospheres of exposure by inhalation to chemical agents for con measurement strategy) European Standard EN 140 Guide for the application and use of procedures for the mical and biological agents) European Standard EN ospheres - General requirements for the performance ment of chemical agents) Reference to national guide nethods for the determination of hazardous substance	ne effectivene se respiratory dards, such - Guidance f nparison with 42 (Workpla e assessme 482 ce of procedu dance	y as for n ice nt of ures	
Date of issue/Date of revision	: 1/6/2020		00815 EU	5/12	

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ammonium chloride	DNEL	Long term Inhalation	9.4 mg/m ³	General population	Systemic
	DNEL	Long term Oral	11.4 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	33.5 mg/m³		Systemic
	DNEL	Short term Oral	55.2 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	55.2 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	128.9 mg/ kg bw/day	Workers	Systemic

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measure	<u>)</u> S	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin 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	:	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.
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.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Color	: Colorless.
Odor	: Odorless.
Odor threshold	: Not available.
рН	: Weakly acidic.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility(ies)	: Miscible in water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: Not available.
Oxidizing properties	: Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

HORIBA Advanced Techno 500-CA-ISA (Ionic strength adjuster for calcium ion selective electrode)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
ammonium chloride	LD50 Oral	Rat	1650 mg/kg	-
Conclusion/Summary	Not available.			

Acute toxicity estimates

Route	ATE value	
Oral	10312.5 mg/kg	

Irritation/Corrosion

Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Symptoms related to the physical. chemical and toxicological characteristics Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : No specific data.	Product/ingredient name	Result	Species	Score	Exposure	Observat	ion
Eyes - Severe irritant Rabbit - 100 ⁻ milligrams - Conclusion/Summary : Not available. Sensitization Conclusion/Summary : Not available. Mutagenicity Conclusion/Summary : Not available. Carcinogenicity Conclusion/Summary : Not available. Carcinogenicity Conclusion/Summary : Not available. Conclusion/Summary : Not available. - Reproductive toxicity Conclusion/Summary : Not available. Conclusion/Summary : Not available. - Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Not available. - - Specific target organ toxicity (repeated exposure) Not available. Not available. - - Potential acute health effects - - Eye contact : Causes serious eye irritation. - Inhalation : No known significant effects or critical hazards. - Skin contact : No known significant effects or critical hazards. - Symptoms related to	ammonium chloride	Eyes - Mild irritant	Rabbit	-		-	
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Date of issue/Date of revision : 1/6/2020 00815 EU 8/12							
	Date of issue/Date of revision	: 1/6/2020				00815 EU	8/12

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

HORIBAAdvanced Techno 500-CA-ISA (lonic strength adjuster for calcium ion selective electrode)

SECTION 11: Toxicological information

Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
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.	
Conclusion/Summary	: 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.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ammonium chloride	Acute EC50 0.07 mg/l Marine water	Algae - Hormosira banksii - Gamete	72 hours
	Acute LC50 20 µg/l Fresh water	Crustaceans - Macrobrachium rosenbergii - Post-Iarvae	48 hours
	Acute LC50 390 µg/l Fresh water	Daphnia - Daphnia magna - Young	48 hours
	Acute LC50 80 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic EC10 0.03 mg/l Fresh water	Daphnia - Daphnia obtusa	21 days
	Chronic NOEC 0.6 mg/l Marine water	Algae - Entomoneis punctulata - Exponential growth phase	72 hours
	Chronic NOEC 330 µg/l Fresh water	Crustaceans - Crangonyx sp Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 0.006 mg/l Fresh water	Fish - Ictalurus punctatus - Fry	30 days

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Conclusion/Summary

: Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
ammonium chloride	-3.2	-	low

SECTION 12: Ecological information

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
12.5 Results of PBT and vPv	B assessment
PBT	: Not applicable.
vPvB	: Not applicable.

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

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product	
Methods of disposal	: 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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimized wherever possible. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	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

		ADN	IMDG	IATA
	ADR/RID	ADN	INDG	
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

SECTION 14: Transport information

14.6 Special precautions for user

: **Transport within user's premises:** 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.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
EU Regulation (EC) No. 1907/2006 (REACH)				
Annex XIV - List of substances subject to authorization				
Annex XIV				
None of the components are listed.				
Substances of very high concern				
None of the components are listed.				
Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and				
use of certain dangerous				
substances, mixtures and articles				
Other EU regulations				
Europe inventory : All components are listed or exempted.				
Seveso Directive				
This product is controlled under the Seveso Directive.				
International regulations				
Chemical Weapon Convention List Schedules I, II & III Chemicals				
Not listed.				
Montreal Protocol				
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.				
15.2 Chemical Safety : This product contains substances for which Chemical Safety Assessments are still				

SECTION 16: Other information

Indicates information that has changed from previously issued version.

required.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate
	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative
Procedure used to derive the	classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Assessment

SECTION 16: Other information

Classi	ation	Justification	
Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410		Calculation method Calculation method Calculation method	
Full text of abbreviated H statements	: H302 H319 H400 H410	Harmful if swallowed. Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.	
Full text of classifications [CLP/GHS]		ute 1, H400 AQUATIC HAZARD (ACUTE) - Category 1 ronic 1, H410 AQUATIC HAZARD (LONG-TERM) - Category 1	
Full text of abbreviated R phrases		R22- Harmful if swallowed. R36- Irritating to eyes.	
Full text of classifications [DSD/DPD]	: Xn - Harmfu Xi - Irritant	l	
Date of issue/ Date of revision	: 1/6/2020		
Date of previous issue Notice to reader	: 1/6/2020		

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.