

## SAFETY DATA SHEET

Version: 6

Date of issue: 23/10/2020

## DetenLAS® 320

# **Section 1. Identification**

GHS product identifier Product code Chemical name	<ul> <li>DetenLAS® 320</li> <li>77792</li> <li>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.</li> </ul>
Other means of identification	: Linear Alkyl Benzene Sulfonic acid with one linear alkyl chain of 10 to 13 carbon atoms, an average of 11.6 atoms Linear Alkylbenzene Sulfonic Acid
Product type	: Liquid.

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

Specific uses	
Surfactants. Manufacture of soaps and detergents.	

Supplier's details	Deten Química S.A. Rua Hidrogênio, 1744 Complexo Industrial de Camaçari (COPEC) Camaçari - Bahia - Brasil CEP: 42.816-140	
Telephone number	+55 71 3634-3207 / 3208 Fax: +55 71 3634-5155	
Information limitations	08:00 - 16:30	
Email	fala@deten.com.br / comercial@deten.com.br tuteladeproducto@cepsa.com / productstewardship@cepsa.co	ст
Emergency telephone number	+55 71 3634-3333 / 0800-284-8474	
Information limitations	24/7	

# Section 2. Hazards identification

Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (ACUTE) - Category 2
GHS label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>H302 - Harmful if swallowed.</li> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H401 - Toxic to aquatic life.</li> </ul>
Precautionary statements	

#### **Precautionary statements**



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Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection: Recommended: Chemical splash goggles Wear protective clothing: Recommended: Wear protective clothing. Wear protective gloves</li> <li>P273 - Avoid release to the environment.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash hands thoroughly after handling.</li> </ul>
Response	<ul> <li>P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. 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. 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	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture	ostance	
Chemical name	nzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	
Other means of identification	ear Alkyl Benzene Sulfonic acid with one linear alkyl chain of 10 to 1 ms, an average of 11.6 atoms ear Alkylbenzene Sulfonic Acid	3 carbon

CAS number/other identifiers		
CAS number	:	8

In an aliant name	
Product code	: 77792
EC number	: 287-494-3
CAS number	: 85536-14-7

Ingredient name	%	CAS number
Penzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	100	85536-14-7

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 or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.



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# Section 4. First aid measures

Description of necessary first aid measures		
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.	
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and 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 effects	
Eye contact	: Causes serious eye damage.
Inhalation	No known significant effects or critical hazards.
Skin contact	Causes severe burns.
Ingestion	Harmful if swallowed.
Over-exposure signs/sympto	<u>ms</u>
	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
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#### Indication of immediate medical 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)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishin media	g : 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. This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition product	: No specific data. s
Special protective action for fire-fighters	<ul> <li>Shut off all ignition sources. If fire cannot be extinguished, withdraw from area and allow the fire to burn. Use water spray to keep fire-exposed containers cool.</li> </ul>
Special protective equipment for fire-fighter	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>
Remark	: Storage temperature: 30- 40° C. Emits toxic fumes when heated to decomposition.

# Section 6. Accidental release measures

#### Personal precautions, protective 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".



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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.			
Methods and materials for co	ont	ainment 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 (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. 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.			

# 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. Avoid release to the environment. 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 alkalis. 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.
Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 30 to 40°C (86 to 104°F). 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 locked up. Separate from alkalis. 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.



**Control parameters** 

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# Section 8. Exposure controls/personal protection

<u>Control parameters</u>		
Occupational exposure limit	ts	
None.		
Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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.
Individual protection measure	<u>es</u>	
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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: 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. Recommended: Wear protective clothing. Wear protective gloves.
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. Recommended: Suitable protective footwear.
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. Recommended: Use appropriate respiratory protection if there is a risk of exceeding any exposure limits.



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# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	Liquid. [Viscous liquid.]	
Color	Brown.	
Odor	Spicy.	
Odor threshold	Not available.	
рН	<1	
Melting point	<-7°C (<19,4°F)	
Boiling point	190°C (374°F)	
Flash point	Closed cup: 193,9°C (381°F) [Pensky-Martens.] [Product does not sustain combustion.]	
Evaporation rate	Not available.	
Flammability (solid, gas)	Evolves toxic fumes when heated to decomposition. Store away from direct sunlight	ht.
Lower and upper explosive (flammable) limits	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	1,0491 [EU.A1]	
Density	1,0491 g/cm³ [20°C (68°F)]	
Solubility	Easily soluble in the following materials: cold water and hot water.	
Solubility in water	160 g/l	
Partition coefficient: n- octanol/water	3,32	
Auto-ignition temperature	380°C (716°F)	
Decomposition temperature	Not available.	
Viscosity	Kinematic (room temperature): 13,148 cm <sup>2</sup> /s (1314,8 cSt) [ASTM D 7042-04]	
Flow time (ISO 2431)	Not available.	

# Section 10. Stability and reactivity

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	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis



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Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral LD50 Oral	Rat Rat	775 mg/kg 1470 mg/kg	-

Conclusion/Summary

: Classified as Category 4

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	Eyes - Moderate irritant	Rabbit	-	0.1 MI	-
-	Skin - Severe irritant	Rabbit	-	0.5 MI	-
	Skin - Visible necrosis	Rabbit	-	3 minutes	3 hours
	Eyes - Edema of the conjunctivae	Rabbit	1	3 hours	3 hours

Conclusion/Summary

- : Corrosive
- : Will cause serious damage to the eyes.

#### **Sensitization**

Skin

Eyes

Not available.

#### **Conclusion/Summary**

Skin

: Corrosive to the skin. Irritating to eyes.

- Respiratory
- : No known significant effects or critical hazards.

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
■ Penzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	EPA 471 Bacterial Reverse Mutation Test EPA 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vitro Subject: Bacteria Experiment: In vivo Subject: Mammalian-Human	Negative Negative

Conclusion/Summary

: Not mutagenic in a standard battery of genetic toxicological tests.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)



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Not available.		
Specific target organ toxici Not available.	<u>ty (</u>	<u>repeated exposure)</u>
Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects	<u>s</u>	
Eye contact	:	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes severe burns.
Ingestion	:	Harmful if swallowed.
Symptoms related to the phy	ysic	cal, 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
Delayed and immediate effect	cts	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 eff	ect	<u>s</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.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

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### Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	775	N/A	N/A	N/A	N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Senzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	EC50 36 mg/l	Algae - Scenedesmus subpicatus	72 hours
	EC50 170 mg/l	Algae - Selenastrum capricornotum	96 hours
	EC50 2,9 mg/l	Daphnia - Daphnia magna	48 hours

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
₿enzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	301A Ready Biodegradability - DOC Die-Away Test 303A Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units		dily - 28 days lays	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	-		-		Readily	,

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Penzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	3,32	-	low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.



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Mobility	: Distribution benzenesulfonic acid C10-C16 alkyl derivatives: 1% air, 32% water, 63% Land 4% sediment. Method, EPI Suite (USEPA 2000b); Photodegradation can be a significant mechanism in the decomposition of the sulfonic acids. The modeling of dodecyl acid, dodecyl and tridecyl benzene sulfonic, throws a half-life between 7 and 8.6 hours / day. USEPA reference. Aerobic biodegradation: OECD DOC- Die Away Test. Result 94% at 28 days. Readily biodegradable. Method modified multiple units. Result 92% at 37 days. USEPA reference. The sodium sulfonate obtained by neutralizing PETRESUL-550 meets the requirements stipulated in biodegradability Detergents Regulation EC No 648/2004. Studies with LAS, said it quickly biodegrades in soil and does not migrate more than 20-30 cm deep, with the potential risk of groundwater contamination is very low.
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
	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

	Brazil	IMDG	ΙΑΤΑ	
UN number	UN2586	UN2586	UN2586	
UN proper shipping name	ÁCIDOS ARILSULFÔNICOS, LÍQUIDOS liquid	ARYLSULPHONIC ACIDS, LIQUID liquid	Arylsulphonic acids, liquid liquid	
Transport hazard class(es)	8	8	8	
Packing group	Ш	Ш	Ш	
Environmental hazards	No.	No.	No.	
Additional information				
Brazil	: Risk number 80			
IMDG	: Emergency schedules F-A, S-B			
ΙΑΤΑ	<ul> <li><u>Quantity limitation</u> Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y841.</li> <li><u>Special provisions</u> A803</li> </ul>			



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 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.

 Transport in bulk according to Annex II of MARPOL and the IBC Code
 : Not available.

 Remarks
 : Not available.

# Section 15. Regulatory information

#### 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.

#### Inventory list

Australia	: This material is listed or exempted.
Canada	: This material is listed or exempted.
China	: This material is listed or exempted.
Europe	: This material is listed or exempted.
Japan	: Japan inventory (ENCS): Not determined Japan inventory (ISHL): Not determined.
New Zealand	: This material is listed or exempted.
Philippines	: This material is listed or exempted.
Republic of Korea	: This material is listed or exempted.
Taiwan	: This material is listed or exempted.
Thailand	: Not determined.
Turkey	: This material is listed or exempted.
United States	: This material is listed or exempted.
Viet Nam	: This material is listed or exempted.



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# Section 16. Other information

<u>History</u>	
Date of printing	: 23/10/2020
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Date of previous issue	: 23/10/2020
Key to abbreviations	<ul> <li>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</li> </ul>

#### Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	On basis of test data
SKIN CORROSION - Category 1	On basis of test data
SERIOUS EYE DAMAGE - Category 1	On basis of test data
AQUATIC HAZARD (ACUTE) - Category 2	Expert judgment

References

: HERA-LAS: http://www.heraproject.com

✓ 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 abovenamed 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.