# SAFETY DATA SHEET



#### according to WHMIS 2015 and ANSI Z400.1-2010

WEICON A Epoxy Hardener

Hardener

### Section 1. Identification

Product identifier	:	WEICON A Epoxy
Product code	:	100002

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

Identified uses

Epoxy resins Hardener for resins.

Supplier's details	: WEICON GmbH & Co. KG Königsberger Str. 255 48157 Münster Germany Phone: +49 251 93220 Fax: +49(0)251 / 9322 - 244 Internet: www.weicon.de
e-mail address of person	: msds@weicon.de

## responsible for this SDS

#### National contact

WEICON Canada Inc. 20 Steckle Place, Unit 20 Kitchener, Ontario N2E 2C3, CA www.weicon.ca E-mail: info@weicon.ca Telephone: +1-519-896-5252 Telefax: +1-519-896-5254

Emergency telephone	: +1 866 928 0789 (24h - Toll free)
number	TRANSPORT EMERGENCY CONTACT :+1 866 928 0789 ((24h - Toll free)

### Section 2. Hazard identification

Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
<u>GHS label elements</u> 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>H317 - May cause an allergic skin reaction.</li> <li>H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure.</li> </ul>

**Precautionary statements** 

Date of issue/Date of revision

### Section 2. Hazard identification

Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P284 - Wear respiratory protection.</li> <li>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.</li> <li>P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.</li> <li>P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</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 doctor.</li> </ul>
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of waste according to applicable legislation.

### Section 3. Composition/information on ingredients

#### Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number	CAS number	
<b>P</b> oly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	≥10 - ≤30	9046-10-0		
polyethlyenepolyamines	≥10 - ≤30	90640-67-8		
2,4,6-tris(dimethylaminomethyl)phenol	≥1 - ≤5	90-72-2		
piperazine [liquid]	≥1 - ≤5	110-85-0		
2-piperazin-1-ylethylamine	≥1 - ≤5	140-31-8		

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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

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

### 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.

## Section 4. First-aid measures

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. 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. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of 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. In the event of any complaints or symptoms, avoid further exposure. 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. 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	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	Causes severe burns. May cause an allergic skin reaction.
Ingestion	Harmful if swallowed.
Over-exposure signs/sympto	<u>ns</u>
Eye contact	Adverse symptoms may include the following: pain watering redness
Inhalation	Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

## Section 4. First-aid measures

Indication of immediate medical attention and special treatment needed, if necessary		
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.	
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.	

## Section 5. Fire-fighting measures

<u>Extinguishing media</u>	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
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: carbon dioxide carbon monoxide nitrogen 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	<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>

### 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".
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 containment and cleaning up		

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop<br/>up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry<br/>material and place in an appropriate waste disposal container. Dispose of via a<br/>licensed waste disposal contractor.

## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
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 locked up. 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 limits
píperazine [liquid]	CA Ontario Provincial (Canada, 6/2019). [Piperazine and salts] TWA: 0.03 ppm, (as piperazine) 8 hours. Form: Inhalable fraction and vapour. CA British Columbia Provincial (Canada, 6/2021). [Piperazine and its Salts] Skin sensitizer. Inhalation sensitizer. TWA: 0.3 mg/m <sup>3</sup> , (as piperazine) 8 hours. STEL: 1 mg/m <sup>3</sup> , (as piperazine) 15 minutes.

Appropriate engineering controls	:	Use only with adequate ventilation. 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 measu	res	
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 8. Exposure controls/personal protection

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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.
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. Recommended : 1 - 4 hours (breakthrough time): nitrile rubber ; 4 - 8 hours (breakthrough time): Viton®/butyl rubber
Body protection	<ul> <li>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.</li> </ul>
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. Recommended : organic vapor (Type AX) and particulate filter

## Section 9. Physical and chemical properties

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#### **Appearance**

<u>Appoulation</u>	
Physical state	: Liquid.
Color	: Gray.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: 9 to 10
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Closed cup: >100°C (>212°F) [Pensky-Martens]
Evaporation rate	: Not available.
Flammability	: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Lower and upper explosion	: Not available.

Lower and upper explosion limit/flammability limit

#### Vapor pressure

	۱	/apor Press	sure at 20°C	v	Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
oly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	0.68	0.091	OECD 104	1.58	0.21	OECD 104		
2,4,6-tris(dimethylaminomethyl) phenol	0.06	0.008	EU A.4					
2-piperazin-1-ylethylamine	0.04	0.0053						
polyethlyenepolyamines	0	0	OECD 104					
elative vapor density	: Not av	ailable.	+	·				
elative density	: Not av	ailable.						

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## Section 9. Physical and chemical properties

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Density	:	1.4 g/cm³ [20°C (68°F)]
Solubility(ies)		:
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
Viscosity	:	Dynamic: 85000 mPa·s (85000 cP)
Flow time (ISO 2431)	:	Not available.
Particle characteristics		
Median particle size	:	Not applicable.

## 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	: No specific data.
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
₽,4,6-tris (dimethylaminomethyl) phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
	LD50 Oral	Rat	1673 mg/kg	-
	LD50 Oral	Rat	2169 mg/kg	-
piperazine [liquid]	LD50 Dermal	Rabbit	4000 mg/kg	-
	LD50 Oral	Rat	1900 mg/kg	-

#### Acute toxicity estimates

Route	ATE value
Øral	1754.39 mg/kg
Dermal	3283.58 mg/kg

#### Irritation/Corrosion

## Section 11. Toxicological information

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Product/ingredient name	Result	Species	Score	Exposure	Observation
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	Eyes - Severe irritant	Rabbit	-	100 mg	-
2,4,6-tris (dimethylaminomethyl) phenol	Eyes - Severe irritant	Rabbit	-	24 hours 50 ug	-
	Skin - Mild irritant	Rat	-	0.025 MI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Severe irritant	Rat	-	0.25 MI	-
piperazine [liquid]	Eyes - Moderate irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250 ug	-
	Eyes - Severe irritant	Rabbit	-	250 ug	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	0.01 MI	-
2-piperazin-1-ylethylamine	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 5 mg	-

#### Sensitization

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	IARC	NTP	ACGIH
piperazine [liquid]	-	-	A4

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2-piperazin-1-ylethylamine	Category 1	-	-

#### Aspiration hazard

Date of issue/Date of revision

## Section 11. Toxicological information

Not available.

Information on the likely routes of exposure	: Not available.
Potential acute health effect	<u>s</u>
Eye contact	: Causes serious eye damage.
Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Symptoms related to the ph	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
	pain watering
	watering redness
Inhalation	: Adverse symptoms may include the following:
initialition	wheezing and breathing difficulties
	asthma
	reduced fetal weight increase in fetal deaths
	skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	pain or irritation
	redness
	blistering may occur reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following:
	stomach pains reduced fetal weight
	increase in fetal deaths
	skeletal malformations
	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	fects
Not available.	
General	: Causes damage to organs through prolonged or repeated exposure. Once
	sensitized, a severe allergic reaction may occur when subsequently exposed to very
	low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.

- **Teratogenicity** : Suspected of damaging the unborn child.
- **Developmental effects** : No known significant effects or critical hazards.
- Fertility effects : Suspected of damaging fertility.

## Section 11. Toxicological information

#### 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)
WEICON A Epoxy Hardener	1754.4	3283.6	N/A	N/A	N/A
polyethlyenepolyamines	500	1100	N/A	N/A	N/A
2,4,6-tris(dimethylaminomethyl)phenol	500	N/A	N/A	N/A	N/A
piperazine [liquid]	N/A	4000	N/A	N/A	N/A
2-piperazin-1-ylethylamine	500	300	N/A	N/A	N/A

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
-piperazin-1-ylethylamine	Acute LC50 2190000 μg/l Fresh water	Fish - Pimephales promelas	96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-	1.34	-	low
(2-aminomethylethoxy)- polyethlyenepolyamines 2,4,6-tris	-2.65 0.219	-	low low
(dimethylaminomethyl)phenol 2-piperazin-1-ylethylamine	-1.48	-	low

#### 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

## Section 13. Disposal considerations

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

	TDG Classification	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN2735	UN2735	UN2735	UN2735
UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S.	Polyamines, liquid, corrosive, n.o.s.	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Poly[oxy (methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)- ω- (2-aminomethylethoxy)- , Amines, polyethylenepoly-, triethylenetetramine fraction)	Polyamines, liquid, corrosive, n.o.s. (Poly [oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)- ω- (2-aminomethylethoxy)- , Amines, polyethylenepoly-, triethylenetetramine fraction)
Transport hazard class(es)	8	8 Connection	8	8
Packing group	111	III		111
Environmental hazards	No.	No.	No.	No.
Additional inform	on : Product Goods R <u>Explosiv</u> Passeng Special on : <u>Limited</u> <u>Packagi</u> Quantity	egulations: 2.40-2.42 (Cla <u>ve Limit and Limited Qu</u> <u>ger Carrying Road or Ra</u> <u>provisions</u> 16 <u>quantity</u> Yes. <u>ng instruction</u> Exceptior <u>v limitation</u> Passenger ai	<u>antitý Index</u> 5 <u>iil Index</u> 5 ns: 154. Non-bulk: 203. E rcraft/rail: 5 L. Cargo airc	ulk: 241.
IMDG	<ul> <li>Special provisions IB3, T7, TP1, TP28</li> <li>Emergency schedules F-A, S-B</li> <li>Special provisions 223, 274</li> </ul>			
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> A3, A803</li> </ul>			
Special precaution	<b>ns for user</b> : <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 to IMO instrument				

### Section 15. Regulatory information

#### **Canadian lists** Canadian NPRI : None of the components are listed. **CEPA** Toxic substances : None of the components are listed. 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 : Not determined. Canada : Not determined. China : All components are listed or exempted. **Eurasian Economic Union** : **Russian Federation inventory**: All components are listed or exempted. Japan : Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted. **Philippines** : Not determined. **Republic of Korea** : Not determined. Taiwan : Not determined. Thailand : All components are listed or exempted. : Not determined. Turkey **United States** : Not determined. Viet Nam : All components are listed or exempted.

### Section 16. Other information

<u>History</u>	
Date of printing	: 12/23/2022
Date of issue/Date of revision	: 10/19/2022
Date of previous issue	: 1/18/2022
Version	: 2.01
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals HPR = Hazardous Products Regulations IATA = International Air Transport Association IBC = International Air Transport Association 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) N/A = Not available SGG = Segregation Group UN = United Nations
Date of issue/Date of revision	: 10/19/2022 Date of previous issue : 1/18/2022 Version : 2.01 12/13

## Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN CORROSION - Category 1B	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
RESPIRATORY SENSITIZATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method

#### References

: Not available.

✓ 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.