# SAFETY DATA SHEET



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

WEICON HB 300 Epoxy Hardener

### Section 1. Identification

Product identifier	:	WEICON HB 300 Epoxy Hardener
Product code	:	104502

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

#### Identified uses

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

### e-mail address of person 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	: SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: H315 - Causes skin irritation.
Hazaro statements	H315 - Causes skin initiation. H317 - May cause an allergic skin reaction.
	H318 - Causes serious eye damage.
	H351 - Suspected of causing cancer.
	H372 - Causes damage to organs through prolonged or repeated exposure.
Precautionary statements	

### Section 2. Hazard identification

Prevention	<ul> <li>₽201 - 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>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.</li> <li>P362 + P364 - Take off contaminated clothing and wash it 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.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul>
Storage	: P405 - Store locked up.
Disposal	: <b>P</b> 501 - Dispose of waste according to applicable legislation.

### Section 3. Composition/information on ingredients

: Mixture

Substance/mixture

Ingredient name	% (w/w)	CAS number
✓atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	≥10 - ≤30	68082-29-1
nickel	≥5 - ≤10	7440-02-0
polyethlyenepolyamines	≥1 - ≤5	90640-67-8
Phenol, styrenated	≥0.1 - ≤1	61788-44-1
2-piperazin-1-ylethylamine	≥0.1 - ≤1	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.
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.

### Section 4. First-aid measures

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	: Set 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 effec		
Eye contact	: Causes serious eye damage.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/symp	o <u>ms</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 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.	

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

### Section 5. Fire-fighting measures

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 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	<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 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.

### 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 should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. 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. 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. 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.

### Section 7. Handling and storage

Conditions for safe storage,	: Store in accordance with local regulations. Store in original container protected
including any	from direct sunlight in a dry, cool and well-ventilated area, away from incompatible
incompatibilities	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		
přckel	<ul> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>STEL: 3 mg/m<sup>3</sup> 15 minutes. Form: Inhalable fraction</li> <li>TWA: 1.5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>TWA: 1 mg/m<sup>3</sup> 8 hours. Form: Inhalable particulate matter.</li> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>8 hrs OEL: 1.5 mg/m<sup>3</sup> 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2018).</li> <li>6/2021). [Nickel - Elemental, Soluble inorganic compounds]</li> <li>TWA: 0.05 mg/m<sup>3</sup>, (as Ni) 8 hours.</li> </ul>		

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 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.					
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					
Date of issue/Date of revision		: 10/19/2022 Date of previous issue : 6/5/2020 Version : 1 5/12					

### Section 8. Exposure controls/personal protection

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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. Recommended : organic vapor (Type AX) and particulate filter

### Section 9. Physical and chemical properties

#### <u>Appearance</u>

Physical state	: Liquid.
Color	: Black.
Odor	: Ammoniacal.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Øosed cup: 101°C (213.8°F)
Evaporation rate	: Not available.
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.

:

#### Vapor pressure

	Vapor Pressure at 20°C			\ \	Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
2-piperazin-1-ylethylamine	0.04	0.0053					
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	0	0					
polyethlyenepolyamines	0	0	OECD 104				
Relative vapor density	: Not ava	ilable.					
Relative density	: Not ava	ilable.					
Density	: 2.3 to 2	.5 g/cm³ [2	0°C (68°F)]				
Solubility(ies)	:						
Not available.							
Solubility in water	: Not ava	ailable.					
Viscible with water	<b>: N</b> o.						
Partition coefficient: n- octanol/water	: Not app	olicable.					
Auto-ignition temperature	: Not app	olicable.					
Decomposition temperature	: Not ava	ailable.					
/iscosity	: Not ava	ailable.					
Flow time (ISO 2431)	: Not ava	ailable.					
Particle characteristics							
Median particle size	: Not app	olicable.					

### 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

Not available.

#### Acute toxicity estimates

Route	ATE value
Oral	10416.67 mg/kg
Dermal	22916.67 mg/kg

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phenol, styrenated	Eyes - Mild irritant	Rabbit	-	0.1 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
nickel	2B	Reasonably anticipated to be a human carcinogen.	A5

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

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

### Section 11. Toxicological information

Not available.

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

Name	·····	Route of exposure	Target organs
nickel	Category 1	-	-

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phys	sic	al. 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 effects 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 eff	ects
Not available.	
General	<ul> <li>Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
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.

### Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
EICON HB 300 Epoxy Hardener	10416.7	22916.7	N/A	N/A	N/A
polyethlyenepolyamines	500	1100	N/A	N/A	N/A
2-piperazin-1-ylethylamine	500	1100	N/A	N/A	N/A

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
píckel	Acute EC50 2 ppm Marine water	Algae - Macrocystis pyrifera - Young	4 days
	Acute EC50 450 μg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 1000 µg/l Marine water	Daphnia - Daphnia magna	48 hours
	Acute IC50 0.31 mg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 47.5 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 100 mg/l Marine water	Algae - Glenodinium halli	72 hours
	Chronic NOEC 3.5 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
polyethlyenepolyamines	-2.65	-	low
2-piperazin-1-ylethylamine	-1.48	-	low

<u>Mobility in soil</u> Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
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

	TDG Classification	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN3259	UN3259	UN3259	UN3259
UN proper shipping name	AMINES, SOLID, CORROSIVE, N.O.S. (Amines, polyethylenepoly-, triethylenetetramine fraction)	Amines, solid, corrosive, n.o.s. (Amines, polyethylenepoly-, triethylenetetramine fraction)	AMINES, SOLID, CORROSIVE, N.O.S. (Amines, polyethylenepoly-, triethylenetetramine fraction)	Amines, solid, corrosive, n.o.s. (Amines, polyethylenepoly-, triethylenetetramine fraction)
Transport hazard class(es)	8	8 Company 8	8	8
Packing group	111	111	Ш	Ш
Environmental hazards	No.	No.	<b>N</b> o.	<b>N</b> o.
Additional inform	<u>ation</u>			
DOT Classificatio	Explosive Passeng Special shipped i RQ (report Limited Packagin Quantity Special	in quantities less than the ortable quantity) transport <b>quantity</b> Yes. ng instruction Exception <u>Imitation</u> Passenger ai provisions IB8, IP3, T1,	antity Index 5 <u>ill Index</u> 25 825.45 kg [90.859 gal / 3 product reportable quan ation requirements. ns: 154. Non-bulk: 213. 1 rcraft/rail: 25 kg. Cargo a	Bulk: 240.
IMDG		ncy schedules F-A, S-B provisions 223, 274		
ΙΑΤΑ	860. Cal Passeng	<u>/ limitation</u> Passenger ar rgo Aircraft Only: 100 kg. er Aircraft: 5 kg. Packagi provisions A3, A803	Packaging instructions: 8	00
Special precaution	upright a	<b>rt within user's premise</b> nd secure. Ensure that pe t of an accident or spillag	ersons transporting the p	osed containers that are roduct know what to do in

### Section 14. Transport information

Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

#### Canadian lists Canadian NPRI

#### : The following components are listed: nickel (and its compounds)

**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

<u>inventory not</u>	
Australia	: Not determined.
Canada	: Not determined.
China	: All components are listed or exempted.
Eurasian Economic Union	: <b>Russian Federation inventory</b> : 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	: 🕅 components are listed or exempted.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: All components are listed or exempted.

### Section 16. Other information

History	
Date of printing	: 12/23/2022
Date of issue/Date of revision	: 10/19/2022
Date of previous issue	: 6/5/2020
Version	: 1
Key to abbreviations	<ul> <li>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 IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient</li> </ul>

Date of issue/Date of revision	: 10/19/2022 Date of previous issue	: 6/5/2020	Version : 1 11/
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### Section 16. Other information

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

#### Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method

References

: Not available.

**V** 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.