

SAFETY DATA SHEET

SPECIFIX RESIN



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

1.1 Product identifier

Product name : SPECIFIX RESIN
UFI : 1H33-A029-C00A-CSC2
Cat. No. : 40200051, 50209042
Container size : 1 l
Product type : Liquid.
Other means of identification : Not available.

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

Product use : For embedding and impregnation of materialographic specimens
Area of application : Professional applications.

Uses advised against

None identified.

1.3 Details of the supplier of the safety data sheet

Struers ApS
Pederstrupvej 84
DK-2750 Ballerup
Telephone: +45 44 600 800
e-mail address of person responsible for this SDS : sdsquestions@struers.dk

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : 01809 2166 - 8am-10pm, 7d/7

Supplier

Telephone number : +45 44 600 800 (Only during office hours)

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]

Skin Irrit. 2, H315
Eye Irrit. 2, H319
Skin Sens. 1, H317
Repr. 1B, H360F
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H360F - May damage fertility.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.
P273 - Avoid release to the environment.

Response

: P391 - Collect spillage.
P308 + P313 - IF exposed or concerned: Get medical advice or attention.

Storage

: Not applicable.

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients

: bis-[4-(2,3-epoxipropoxy)phenyl]propane
Bisphenol F diglycidyl ether, reaction mass of isomers
1,6-Hexanediol, reaction products with epichlorohydrin
3-trimethoxysilylpropane-1-thiol

Supplemental label elements

: Contains epoxy constituents. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Restricted to professional users.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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SECTION 2: Hazards identification

Product meets the criteria : No.
for endocrine disrupting
properties according to
Regulation (EC) No.
1907/2006.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
bis-[4-(2,3-epoxipropoxy) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥50 - ≤75	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
Bisphenol F diglycidyl ether, reaction mass of isomers	REACH #: 01-2119454392-40 EC: 701-263-0	≥25 - ≤50	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
1,6-Hexanediol, reaction products with epichlorohydrin	REACH #: 01-2119463471-41 CAS: 933999-84-9	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360F	-	[1]
3-trimethoxysilylpropane-1-thiol	REACH #: 01-2120763539-41 EC: 224-588-5 CAS: 4420-74-0	≤3	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 730 mg/kg ATE [Dermal] = 1100 mg/kg	[1]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard
Occupational exposure limits, if available, are listed in Section 8.



SECTION 4: First aid measures

4.1 Description of first aid 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 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** : 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : 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. Get medical attention. 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. 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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed



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SECTION 4: First aid measures

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from 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 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:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides

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, 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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 spilt 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 material for containment and cleaning up



SECTION 6: Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Dispose of via a licensed waste disposal contractor. Absorb spill with inert material (e.g. dry sand or earth) and place in a chemical waste container.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.
- 6.4 Reference to other sections** : 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.

SECTION 7: Handling and storage

7.1 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. 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 ingest. Avoid breathing vapour or mist. 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. 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. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds (in tonnes)

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
E2	200 tonnes	500 tonnes

7.3 Specific end use(s)

- Recommendations** : Not available.



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SECTION 7: Handling and storage

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following:
European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result	
bis-[4-(2,3-epoxipropoxy)phenyl] propane	DNEL - Workers - Short term - Dermal 8.3 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 12.3 mg/m ³	<u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 8.3 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 12.3 mg/m ³	<u>Effects</u> : Systemic
	DNEL - General population - Short term - Dermal 3.6 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 0.75 mg/m ³	<u>Effects</u> : Systemic
	DNEL - General population - Short term - Oral 0.75 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 3.6 mg/kg bw/day	<u>Effects</u> : Systemic



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SECTION 8: Exposure controls/personal protection

	DNEL - General population - Long term - Inhalation 0.75 mg/m ³	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral 0.75 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 89.3 µg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral 0.5 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 0.75 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 0.87 mg/m ³	<u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 4.93 mg/m ³	<u>Effects</u> : Systemic
Bisphenol F diglycidyl ether, reaction mass of isomers	DNEL - Workers - Long term - Dermal 104.15 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 29.39 mg/m ³	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 62.5 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 8.7 mg/m ³	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral 6.25 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - Workers - Short term - Dermal 8.3 µg/cm ²	<u>Effects</u> : Local
1,6-Hexanediol, reaction products with epichlorohydrin	DNEL - Workers - Long term - Inhalation 3.88 mg/m ³	<u>Effects</u> : Systemic
	DNEL - Workers - Long term -	<u>Effects</u> : Systemic



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SECTION 8: Exposure controls/personal protection

Dermal

2.2 mg/kg bw/day

DNEL - General population - Short term - Dermal Effects: Systemic

1.7 mg/kg bw/day

DNEL - General population - Short term - Inhalation Effects: Systemic

1.94 mg/m³

DNEL - General population - Long term - Dermal Effects: Systemic

1.1 mg/kg bw/day

DNEL - General population - Long term - Inhalation Effects: Systemic

5.29 mg/m³

DNEL - General population - Short term - Dermal Effects: Local

13.6 µg/cm²

DNEL - General population - Long term - Dermal Effects: Local

13.6 µg/cm²

DNEL - Workers - Short term - Dermal Effects: Local

22.6 µg/cm²

DNEL - Workers - Long term - Dermal Effects: Local

22.6 µg/cm²

DNEL - General population - Long term - Inhalation Effects: Local

0.27 mg/m³

DNEL - Workers - Long term - Inhalation Effects: Local

0.44 mg/m³

DNEL - General population - Short term - Oral Effects: Systemic

1.5 mg/kg bw/day

DNEL - General population - Long term - Oral Effects: Systemic

1.5 mg/kg bw/day

DNEL - General population - Long term - Dermal Effects: Systemic

3 mg/kg bw/day

DNEL - General population - Short term - Inhalation Effects: Systemic



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SECTION 8: Exposure controls/personal protection

5.29 mg/m³

DNEL - General population - Long term - Inhalation Effects: Systemic
5.29 mg/m³

DNEL - Workers - Long term - Dermal Effects: Systemic
6 mg/kg bw/day

DNEL - Workers - Short term - Inhalation Effects: Systemic
10.57 mg/m³

DNEL - Workers - Long term - Inhalation Effects: Systemic
10.57 mg/m³

DNEL - General population - Long term - Oral Effects: Systemic
0.55 mg/kg bw/day

3-trimethoxysilylpropane-1-thiol **DNEL - General population - Long term - Inhalation** Effects: Systemic
0.58 mg/m³

DNEL - Workers - Long term - Inhalation Effects: Systemic
2.4 mg/m³

DNEL - General population - Long term - Oral Effects: Systemic
0.17 mg/kg bw/day

DNEL - General population - Long term - Dermal Effects: Systemic
0.17 mg/kg bw/day

DNEL - Workers - Long term - Dermal Effects: Systemic
0.33 mg/kg bw/day

DNEL - General population - Short term - Inhalation Effects: Systemic
26400 mg/m³

PNECs

Product/ingredient name **Result**
bis-[4-(2,3-epoxipropoxy)phenyl]
propane **Fresh water**
6 µg/l

Marine water
1 µg/l

Sewage Treatment Plant



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SECTION 8: Exposure controls/personal protection

10 mg/l

Fresh water sediment

0.341 mg/kg dwt

Marine water sediment

0.034 mg/kg dwt

Soil

0.065 mg/kg dwt

Bisphenol F diglycidyl ether, reaction mass of isomers

Fresh water

0.003 mg/l

Marine water

0.0003 mg/l

Sewage Treatment Plant

10 mg/l

Fresh water sediment

0.294 mg/kg dwt

Marine water sediment

0.0294 mg/kg dwt

Soil

0.237 mg/kg dwt

1,6-Hexanediol, reaction products with epichlorohydrin

Fresh water

0.115 mg/l

Marine water

1.11 µg/l

Marine water sediment

0.229 mg/kg dwt

Fresh water sediment

2.29 mg/kg dwt

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour 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.

Individual protection measures

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

- Eyeface 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.
Recommended: Butyl rubber gloves. The breakthrough time must be greater than the end use time of the product.
- 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Colour** : Colourless to light yellow.
- Odour** : Odour [Slight]
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit** : Not available.
- Flash point** : Closed cup: 149°C
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.



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SECTION 9: Physical and chemical properties

pH : Not applicable.

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): 896.4 mm²/s
Kinematic (40°C): Not available.

Solubility	Media	Result
	water	Not soluble

Solubility in water : Not available.

Partition coefficient n-octanol/ water (log Pow) : Not applicable.

Vapour pressure : <0.00001 kPa (<0.000075006 mm Hg)

Relative density : 1.15

Relative vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Miscible with water : No.

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 under normal conditions.
Curing time:
SPECIFIX-20: 8 hours
SPECIFIX-40: 3.5 hours (40-60 °C)

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Under normal conditions of storage and use, hazardous polymerisation 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.



SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Rabbit - Dermal - LD50 20 g/kg	<u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity) Gastrointestinal - Hypermotility, diarrhea Gross Metabolite Changes - Weight loss or decreased weight gain
	Rat - Oral - LD50 11400 mg/kg	
Bisphenol F diglycidyl ether, reaction mass of isomers	Rat - Male, Female - Oral - LD50 >2000 mg/kg	OECD 401 [Acute Oral Toxicity]
	Rabbit - Male, Female - Dermal - LD50 >2000 mg/kg	OECD 402 [Acute Dermal Toxicity]
1,6-Hexanediol, reaction products with epichlorohydrin	Rat - Oral - LD50 2900 mg/kg	OECD 401 [Acute Oral Toxicity]
	Rat - Dermal - LD50 >2000 mg/kg	OECD 402 [Acute Dermal Toxicity]
3-trimethoxysilylpropane-1-thiol	Rat - Oral - LD50 730 mg/kg	
	Rabbit - Dermal - LD50 2140 mg/kg	
	Rat - Oral - LD50 1701 mg/kg	
	Rat - Male, Female - Oral - LD50 850 mg/kg	
	Rat - Dermal - LD50 2247 mg/kg	
	Rat - Dermal - LD50 2583 mg/kg	

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates



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SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SPECIFIX RESIN	85647.2	129057.5	N/A	N/A	N/A
bis-[4-(2,3-epoxipropoxy)phenyl]propane	11400	20000	N/A	N/A	N/A
1,6-Hexanediol, reaction products with epichlorohydrin	2900	N/A	N/A	N/A	N/A
3-trimethoxysilylpropane-1-thiol	730	1100	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Result

Rabbit - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours

Rabbit - Skin - Severe irritant
Duration of treatment/exposure: 24 hours

Rabbit - Skin - Erythema/Eschar
Irritation score: 1.5 to 2

OECD 404 [Acute Dermal Irritation/Corrosion]

Rabbit - Skin - Oedema
Irritation score: 1 to 1.5

OECD 404 [Acute Dermal Irritation/Corrosion]

Bisphenol F diglycidyl ether, reaction mass of isomers

Rabbit - Skin - Erythema/Eschar
Duration of treatment/exposure: 4 hours
Irritation score: 0.7

Observation period: 72 hours
OECD 404 [Acute Dermal Irritation/Corrosion]

Rabbit - Skin - Oedema
Duration of treatment/exposure: 4 hours
Irritation score: 0

Observation period: 4 to 504 hours
OECD 404 [Acute Dermal Irritation/Corrosion]

Rabbit - Skin - Mild irritant
Duration of treatment/exposure: 24 hours

1,6-Hexanediol, reaction products with epichlorohydrin

Rabbit - Skin - Primary dermal irritation index (PDII)
Irritation score: 6.2

3-trimethoxysilylpropane-1-thiol

Rabbit - Skin - Mild irritant
Amount/concentration applied: 500 milligrams

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

Result



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SECTION 11: Toxicological information

bis-[4-(2,3-epoxipropoxy)phenyl]
propane

Rabbit - Eyes - Irritant

OECD 405 [Acute Eye Irritation/
Corrosion]

**Rabbit - Eyes - Redness of the
conjunctivae**

Irritation score: 0.7

Bisphenol F diglycidyl ether, reaction
mass of isomers

Rabbit - Eyes - Cornea opacity

Irritation score: 0

Observation period: 1 to 168 hours
OECD 405 [Acute Eye Irritation/
Corrosion]

Rabbit - Eyes - Iris lesion

Irritation score: 0

Observation period: 1 to 168 hours
OECD 405 [Acute Eye Irritation/
Corrosion]

**Rabbit - Eyes - Oedema of the
conjunctivae**

Irritation score: 0

Observation period: 1 to 168 hours
OECD 405 [Acute Eye Irritation/
Corrosion]

1,6-Hexanediol, reaction products
with epichlorohydrin

**Rabbit - Eyes - Redness of the
conjunctivae**

Irritation score: 3.3

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name

Result

bis-[4-(2,3-epoxipropoxy)phenyl]
propane

Guinea pig - skin

Result: Sensitising

OECD 406 [Skin Sensitization]

Mouse - skin

Result: Sensitising

OECD 429 [Skin Sensitization: Local
Lymph Node Assay]

Bisphenol F diglycidyl ether, reaction
mass of isomers

Guinea pig - skin

Result: Sensitising

1,6-Hexanediol, reaction products
with epichlorohydrin

Mouse - skin

Result: Sensitising

OECD 429 [Skin Sensitization: Local
Lymph Node Assay]

3-trimethoxysilylpropane-1-thiol

Guinea pig - skin

Result: Sensitising

OECD 406 [Skin Sensitization]

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Date of issue/Date of revision

: 20/03/2026

Date of previous issue

: No previous validation

Version : 1

16/26



SPECIFIX RESIN

SECTION 11: Toxicological information

Product/ingredient name	Result	
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Mammalian-Animal >3000 mg/kg [5 days] <u>Result</u> : Negative	
Bisphenol F diglycidyl ether, reaction mass of isomers	In vitro - Bacteria <u>Result</u> : Positive In vivo - Mammalian-Animal <u>Result</u> : Negative	
1,6-Hexanediol, reaction products with epichlorohydrin	In vivo - Mammalian-Animal 2000 mg/kg <u>Result</u> : Negative	OECD 486 [486 Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo]

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Product/ingredient name	Result	
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Rat - Oral - TC 100 mg/kg [24 hours] <u>Result</u> : Negative	OECD 453 [Combined Chronic Toxicity/Carcinogenicity Studies]
	Mouse - Male - Dermal - TC 100 mg/kg [24 hours] <u>Result</u> : Negative	OECD 453 [Combined Chronic Toxicity/Carcinogenicity Studies]
	Rat - Female - Dermal - TC 1000 mg/kg [24 hours] <u>Result</u> : Negative	OECD 453 [Combined Chronic Toxicity/Carcinogenicity Studies]

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Product/ingredient name	Result	
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Rabbit - Oral <u>Developmental</u> : Negative	
Bisphenol F diglycidyl ether, reaction mass of isomers	Rabbit - Dermal 300 mg/kg - NOAEL <u>Maternal toxicity</u> : Negative <u>Developmental</u> : Negative	
1,6-Hexanediol, reaction products with epichlorohydrin	Rat - Oral 55 mg/kg [7 days per week] <u>Fertility effects</u> : Positive	OECD 443 [Extended One-Generation Reproductive Toxicity Study]
	Rat - Female - Oral <u>Developmental</u> : Negative	OECD 414 [Prenatal Developmental Toxicity Study]

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Date of issue/Date of revision : 20/03/2026 Date of previous issue : No previous validation Version : 1 17/26



SPECIFIX RESIN

SECTION 11: Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

- | | |
|---------------------|--|
| Eye contact | : Causes serious eye irritation. |
| 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 physical, chemical and toxicological characteristics

- | | |
|---------------------|--|
| Eye contact | : Adverse symptoms may include the following:
pain or irritation
watering
redness |
| Inhalation | : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations |
| Skin contact | : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations |
| Ingestion | : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

- | | |
|------------------------------------|------------------|
| 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 effects

Product/ingredient name	Result
-------------------------	--------



SPECIFIX RESIN

SECTION 11: Toxicological information

1,6-Hexanediol, reaction products with epichlorohydrin **Chronic - Rat - Oral - NOAEL** 300 mg/kg [90 days] OECD 408 [Repeated Dose 90-Day Oral Toxicity Study in Rodents]

Conclusion/Summary [Product] : Not available.

General : 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.
Reproductive toxicity : May damage fertility.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Acute - LC50 Fish 1.3 mg/l [96 hours]	OECD 203 [Fish, Acute Toxicity Test]
	Acute - EC50 Daphnia - <i>water Flea</i> 2.1 mg/l [48 hours]	OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]
	Acute - EC50 Algae >11 mg/l [72 hours]	
	Chronic - NOEC Daphnia - <i>water Flea</i> 0.3 mg/l [21 days]	OECD 211 [Daphnia Magna Reproduction Test]
Bisphenol F diglycidyl ether, reaction mass of isomers	Acute - LC50 Fish 2.54 mg/l [96 hours]	
	Acute - EC50 Algae >1000 mg/l [72 hours]	OECD 201 [Alga, Growth Inhibition Test]
	Acute - EC50 Daphnia 2.55 mg/l [48 hours]	OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]
1,6-Hexanediol, reaction products with epichlorohydrin	Acute - LC50 - Fresh water Fish - <i>Oncorhynchus mykiss</i>	OECD 203 [Fish, Acute Toxicity Test]



SPECIFIX RESIN

SECTION 12: Ecological information

30 mg/l [96 hours]

Acute - EC50 - Fresh water

Daphnia - *Daphnia magna*
47 mg/l [48 hours]

OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]

Acute - IC50

Micro-organism - *Soil organisms*
>100 mg/l [28 days]

Chronic - NOEC

Daphnia
10 mg/l [21 days]

OECD 211 [Daphnia Magna Reproduction Test]

Chronic - EC10

Fish
1.24 mg/l [35 days]

OECD 210 [Fish, Early-Life Stage Toxicity Test]

3-trimethoxysilylpropane-1-thiol

Acute - LC50 - Fresh water

Fish - *Danio rerio*
439 mg/l [96 hours]

EU

Acute - NOEC - Fresh water

Fish - *Danio rerio*
350 mg/l [96 hours]

EU

Acute - EC50 - Fresh water

Daphnia - *Daphnia magna*
6.7 mg/l [48 hours]

EU

Acute - EC50 - Fresh water

Algae - *Desmodesmus subspicatus*
267 mg/l [72 hours]

EU

Acute - NOEC - Fresh water

Algae - *Desmodesmus subspicatus*
40 mg/l [72 hours]

EU

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name

Result

bis-[4-(2,3-epoxipropoxy)phenyl]propane

6 to 12% [28 days] - Not readily

OECD 301F [Ready Biodegradability - Manometric Respirometry Test]

Bisphenol F diglycidyl ether, reaction mass of isomers

10 mg/l
16% [28 days] - Not readily

OECD 301B [Ready Biodegradability - CO2 Evolution Test]

1,6-Hexanediol, reaction products with epichlorohydrin

Aerobic - 2 mg/l
47% [28 days] - Inherent

OECD 301D [Ready Biodegradability - Closed Bottle Test]

3-trimethoxysilylpropane-1-thiol

Aerobic - 16.1 mg/l
51% [28 days] - Not readily

EU

Conclusion/Summary [Product] : Not available.



SPECIFIX RESIN

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SPECIFIX RESIN	-	-	Readily
bis-[4-(2,3-epoxipropoxy)phenyl]propane	-	-	Not readily
Bisphenol F diglycidyl ether, reaction mass of isomers	-	-	Not readily
1,6-Hexanediol, reaction products with epichlorohydrin	-	-	Inherent
3-trimethoxysilylpropane-1-thiol	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
bis-[4-(2,3-epoxipropoxy)phenyl]propane	2.64 to 3.78	3 to 31	Low
Bisphenol F diglycidyl ether, reaction mass of isomers	3.3	150	Low
1,6-Hexanediol, reaction products with epichlorohydrin	0.822	3.57	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
bis-[4-(2,3-epoxipropoxy)phenyl]propane	4	10465.7
3-trimethoxysilylpropane-1-thiol	1.5	28.968

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
bis-[4-(2,3-epoxipropoxy)phenyl]propane	No	N/A	No	No	No	N/A	No
Bisphenol F diglycidyl ether, reaction mass of isomers	No	N/A	N/A	No	N/A	N/A	N/A
1,6-Hexanediol, reaction products with epichlorohydrin	N/A	N/A	N/A	Yes	N/A	N/A	N/A
3-trimethoxysilylpropane-1-thiol	No	N/A	Yes	No	N/A	N/A	Yes

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]



SPECIFIX RESIN

SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
bis-[4-(2,3-epoxipropoxy)phenyl]propane	No	N/A	No	No	No	N/A	No
Bisphenol F diglycidyl ether, reaction mass of isomers	No	N/A	No	No	No	N/A	No
1,6-Hexanediol, reaction products with epichlorohydrin	No	N/A	No	Yes	No	N/A	No
3-trimethoxysilylpropane-1-thiol	No	N/A	N/A	No	N/A	N/A	N/A

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
bis-[4-(2,3-epoxipropoxy)phenyl]propane	No	N/A	No	No	No	N/A	No
Bisphenol F diglycidyl ether, reaction mass of isomers	No	N/A	No	No	No	N/A	No
1,6-Hexanediol, reaction products with epichlorohydrin	No	N/A	No	Yes	No	N/A	No
3-trimethoxysilylpropane-1-thiol	No	N/A	N/A	No	N/A	N/A	N/A

Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.

Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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 : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances

Packaging



SPECIFIX RESIN

SECTION 13: Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)
Plastic bottles or jugs	15 01 02 plastic packaging

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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy) phenyl]propane, Bisphenol F diglycidyl ether, reaction mass of isomers)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy) phenyl]propane, Bisphenol F diglycidyl ether, reaction mass of isomers)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy) phenyl]propane, Bisphenol F diglycidyl ether, reaction mass of isomers)	Environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxy) phenyl]propane, Bisphenol F diglycidyl ether, reaction mass of isomers)
14.3 Transport hazard class(es)	9  	9  	9  	9  
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

Additional information

ADR/RID

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Hazard identification number 90

Limited quantity 5 L

Special provisions 274, 335, 601, 375, 650

Tunnel code (-)

ADN

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Special provisions 274, 335, 375, 601, 650



SPECIFIX RESIN

SECTION 14: Transport information

IMDG : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Emergency schedules F-A, S-F

Special provisions 274, 335, 375, 969

IATA : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Quantity limitation Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964. Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964.

Special provisions A97, A158, A197, A215

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.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

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 authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
SPECIFIX RESIN	≥90	3
1,6-Hexanediol, reaction products with epichlorohydrin	≥10 - ≤25	30

Labelling : Restricted to professional users.

Other EU regulations

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

SPECIFIX RESIN

SECTION 15: Regulatory information

Danger criteria

Category

E2

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 assessment

: The supplier has not performed a chemical safety assessment for the substance/product.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
B = Bioaccumulative
BCF = Bioconcentration Factor
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
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
M = Mobile
N/A = Not available
P = Persistent
PBT = Persistent, Bioaccumulative and Toxic
PMT = Persistent, Mobile and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SGG = Segregation Group
T = Toxic
vB = Very Bioaccumulative
vM = Very Mobile



SPECIFIX RESIN

SECTION 16: Other information

Key literature references and sources for data	vP = Very Persistent vPvB = Very Persistent and Very Bioaccumulative vPvM = Very Persistent and Very Mobile
	: Regulation (EC) No. 1272/2008 [CLP]; European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), concluded in Geneva on 30 September 1957 plus amendments (Uniform text: Journal of Laws 27/2009 pos. 162 plus amendments); European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN); Occupational exposure limits; International regulations

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

Classification	Justification
Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360F Aquatic Chronic 2, H411	Calculation method Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H302 H312 H315 H317 H319 H360F H411	Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility. Toxic to aquatic life with long lasting effects.
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Full text of classifications [CLP/GHS]

Acute Tox. 4 Aquatic Chronic 2 Eye Irrit. 2 Repr. 1B Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A Skin Sens. 1B	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 REPRODUCTIVE TOXICITY - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A SKIN SENSITISATION - Category 1B
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Training advice	: Ensure operatives are trained to minimise exposures. Training staff on good practice.
Date of issue/ Date of revision	: 20/03/2026
Date of previous issue	: No previous validation
Version	: 1

Notice to reader

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

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

