

# SAFETY DATA SHEET



ARADUR® HY 1300 CH

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

### 1.1 Product identifier

**Product name** : ARADUR® HY 1300 CH  
**Registration number** : Not available.  
**Product code** : 00050584  
**Product description** :  
**Other means of identification** : Not available.

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

**Product use** : Component used for the manufacture of electrical insulation parts

### 1.3 Details of the supplier of the safety data sheet

**Supplier** : Huntsman Advanced Materials (Europe)BVBA  
Everslaan 45  
3078 Everberg / Belgium  
Tel.: +41 61 299 20 41  
Fax: +41 61 299 20 40

**e-mail address of person responsible for this SDS** : Global\_Product\_EHS\_AdMat@huntsman.com

E-mail address to request full REACH registration number upon EU member State Authority request :  
REACH\_Registration\_Nr\_AM@huntsman.com

### 1.4 Emergency telephone number

#### Supplier

**Telephone number** : EUROPE: +32 35 75 1234  
France ORFILA: +33(0)145425959  
ASIA: +65 6336-6011  
China: +86 20 39377888  
+86 532 83889090  
India: + 91 22 42 87 5333  
Australia: 1800 786 152  
New Zealand: 0800 767 437  
USA: +1/800/424.9300

## 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]

Acute Tox. 4, H302  
Acute Tox. 4, H312  
Skin Corr. 1B, H314  
Eye Dam. 1, H318  
Skin Sens. 1, H317  
Aquatic Chronic 2, H411

**Ingredients of unknown toxicity** :

**Ingredients of unknown ecotoxicity** :

#### Classification according to Directive 1999/45/EC [DPD]

**Date of issue / Date of revision** : 1/28/2015.

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## SECTION 2: Hazards identification

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

- Classification** : Xn; R21/22  
 C; R34  
 R43  
 N; R51/53
- Human health hazards** : Harmful in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact.
- Environmental hazards** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Harmful if swallowed or in contact with skin.  
 Causes severe skin burns and eye damage.  
 May cause an allergic skin reaction.  
 Toxic to aquatic life with long lasting effects.

### Precautionary statements

**General** : Not applicable.

**Prevention** : Wear protective gloves: > 8 hours (breakthrough time): butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL). Wear eye or face protection. Wear protective clothing. Avoid release to the environment.

**Response** : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or physician. IF IN EYES: Immediately call a POISON CENTER or physician.

**Storage** : Store locked up.

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

**Hazardous ingredients** : Trimethylolpropane poly(oxypropylene)triamine  
 Amines, polyethylenepoly-, triethylenetetramine fraction

**Supplemental label elements** : Not applicable.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

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

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**SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Propylidynetrimethanol, propoxylated, reaction products with ammonia	CAS: Not available. EC: 500-105-6 RRN: 01-2119556886-20	60-100	Xn; R21/22 Xi; R41 N; R51/53	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318	[1]
Amines, polyethylenepoly-, triethylenetetramine fraction	CAS: 90640-67-8 EC: 292-588-2 RRN: 01-2119487919-13	13-30	Xn; R21/22 C; R34 R43  R52/53	Aquatic Chronic 2, H411 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314  Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
Salicylic acid	CAS: 69-72-7 EC: 200-712-3	3-7	Xn; R22 Xi; R41  <b>See Section 16 for the full text of the R-phrases declared above.</b>	Acute Tox. 4, H302 Eye Dam. 1, H318  <b>See Section 16 for the full text of the H statements declared above.</b>	[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 and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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

Other means of identification

REACH Product name	CAS no.	Other	CAS no.
Propylidynetrimethanol, propoxylated, reaction products with ammonia	Not available.	Trimethylolpropane poly(oxypropylene) triamine	39423-51-3
Amines, polyethylenepoly-, triethylenetetramine fraction	90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	112-24-3

**SECTION 4: First aid measures**

4.1 Description of 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.

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## 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.
- 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- 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

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.

#### Over-exposure signs/symptoms

- 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

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## SECTION 4: First aid measures

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

### 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:

### 5.3 Advice for firefighters

- Special precautions 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 spill material. Do not breathe 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 spill 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

- 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.

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## SECTION 6: Accidental release measures

**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. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

**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

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

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 between the following temperatures: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Storage hazard class** : Storage class 8, Corrosive substances  
**Huntsman Advanced Materials**

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

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**SECTION 8: Exposure controls/personal protection**

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

**8.1 Control parameters**

Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

Derived effect levels

Product/ingredient name	Type	Exposure	Value	Population	Effects
Propylidynetrimethanol, propoxylated, reaction products with ammonia	DNEL	Long term Dermal	1.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	14 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	3.48 mg/m <sup>3</sup>	Consumers	Systemic
Amines, polyethylenepoly-, triethylenetetramine fraction	DNEL	Long term Dermal	0.8 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	5380 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.57 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.028 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Dermal	8 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	1600 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Dermal	1 mg/cm <sup>2</sup>	Consumers	Local
	DNEL	Short term Dermal	0.25 mg/kg bw/day	Consumers	Local
	DNEL	Long term Inhalation	0.29 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	0.41 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Dermal	0.43 mg/cm <sup>2</sup>	Consumers	Local
Salicylic acid	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	16 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Oral	4 mg/kg	Consumers	Systemic

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**SECTION 8: Exposure controls/personal protection**

	DNEL	Long term Dermal	bw/day 1 mg/kg	Consumers	Systemic
	DNEL	Long term Inhalation	bw/day 4 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	1 mg/kg	Consumers	Systemic
	DNEL	Long term Inhalation	bw/day 0.2 mg/m <sup>3</sup>	Consumers	Local

Predicted effect concentrations

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
Propylidynetrimethanol, propoxylated, reaction products with ammonia	PNEC	Fresh water	0.0044 mg/l	Assessment Factors
	PNEC	Marine	0.00044 mg/l	Assessment Factors
	PNEC	PNECintermittent	0.044 mg/l	Assessment Factors
	PNEC	Fresh water sediment	0.02 mg/kg	Equilibrium Partitioning
	PNEC	Marine water sediment	0.002 mg/kg	Equilibrium Partitioning
	PNEC	Soil	0.002 mg/kg	Equilibrium Partitioning
	PNEC	Sewage Treatment Plant	10 mg/l	Assessment Factors
Amines, polyethylenepoly-, triethylenetetramine fraction	PNEC	Fresh water	190 µg/l	Assessment Factors
	PNEC	Fresh water sediment	95.9 mg/kg	Equilibrium Partitioning
	PNEC	Marine	38 µg/l	Assessment Factors
	PNEC	PNECintermittent	200 µg/l	Assessment Factors
	PNEC	Marine water sediment	19.2 mg/kg	Equilibrium Partitioning
	PNEC	Soil	19.1 mg/kg	Equilibrium Partitioning
	PNEC	Sewage Treatment Plant	4.25 mg/l	Assessment Factors
Salicylic acid	PNEC	Secondary Poisoning	0.18 mg/kg	Assessment Factors
	PNEC	Fresh water	0.2 mg/l	-
	PNEC	Marine	0.02 mg/l	-
	PNEC	PNECintermittent	1 mg/l	-
	PNEC	Sewage Treatment Plant	162 mg/l	-
	PNEC	Fresh water sediment	1.42 mg/kg	-
	PNEC	Marine water sediment	0.142 mg/kg	-
PNEC	Soil	0.166 mg/kg	-	
PNEC	Secondary Poisoning	-	-	

**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.

**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.



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## SECTION 8: Exposure controls/personal protection

### 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.
- Material of gloves for long term application (BTT>480min):** : butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL)
- Material of gloves for short term/splash application (10min <BTT<480min):** : nitrile rubber
- (BTT = Break Through Time)

Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Additional information can be found for instance at [www.gisbau.de](http://www.gisbau.de).

- 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** : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Light brown.
- Odour** : Amine-like.
- Odour threshold** : Not available.
- pH** : 11 [Conc. (% w/w): 50%]
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : >200°C
- Flash point** : Closed cup: >150°C [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Upper/lower flammability or explosive limits** : Not available.
- Vapour pressure** : <0.1 kPa [room temperature]
- Vapour density** : Not available.
- Relative density** : Not available.

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## SECTION 9: Physical and chemical properties

### Solubility(ies)

Water solubility : Partly miscible

20 deg C

Partition coefficient: n-octanol/ water (LogK<sub>ow</sub>) : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : >200°C

Viscosity : Dynamic (25°C): 160 - 200 mPa·s  
 Kinematic: Not available.  
 Kinematic (40°C): Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

### 9.2 Other information

Density : 1 g/cm<sup>3</sup> [25°C (77°F)]

## SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : strong acids, strong bases, strong oxidising agents

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

Decomposition products may include the following materials: Carbon oxides, Burning produces obnoxious and toxic fumes., Nitrogen oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Endpoint	Species	Result	Exposure
Propylidynetrimethanol, propoxylated, reaction products with ammonia	LD50 Dermal	Rat - Male, Female	>1000 mg/kg	-
	LD50 Oral	Rat - Male, Female	550 mg/kg	-
Amines, polyethylenepoly-, triethylenetetramine fraction	LD50 Dermal	Rabbit - Male, Female	1465.4 mg/kg	-
	LD50 Oral	Rat - Male, Female	1716.2 mg/kg	-
Salicylic acid	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	891 mg/kg	-

Conclusion/Summary : No additional information.

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## SECTION 11: Toxicological information

### Acute toxicity estimates

Route	ATE value
Oral	668 mg/kg
Dermal	1294.7 mg/kg

### Irritation/Corrosion

Product/ingredient name	Test	Species	Route of exposure	Result
Propylidynetrimethanol, propoxylated, reaction products with ammonia	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin	Mild irritant
	OECD 405 Acute Eye Irritation/Corrosion	Other	Eyes	Severe irritant
Amines, polyethylenepoly-, triethylenetetramine fraction	OECD 405 Acute Eye Irritation/Corrosion	Rabbit	Skin	Corrosive
	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Eyes	Corrosive
Salicylic acid	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin	Non-irritant.
	-	Rabbit	Eyes	Severe irritant

### Conclusion/Summary

<b>Skin</b>	: Propylidynetrimethanol, propoxylated, reaction products with ammonia Amines, polyethylenepoly-, triethylenetetramine fraction Salicylic acid	Irritating to skin.  Corrosive to the skin.  Non-irritating to the skin.
<b>Eyes</b>	: Propylidynetrimethanol, propoxylated, reaction products with ammonia Amines, polyethylenepoly-, triethylenetetramine fraction Salicylic acid	Severely irritating to eyes.  Corrosive to eyes.  Severely irritating to eyes.

**Respiratory** : No additional information.

### Sensitiser

Product/ingredient name	Test	Route of exposure	Species	Result
ARADUR HY 1300 CH	-	skin	Guinea pig	Sensitising
Propylidynetrimethanol, propoxylated, reaction products with ammonia	-	skin	Guinea pig	Not sensitizing
Amines, polyethylenepoly-, triethylenetetramine fraction	OECD 406 Skin Sensitization	skin	Guinea pig	Sensitising
Salicylic acid	OECD 429 Skin Sensitisation: Local Lymph Node Assay	skin	Mouse	Not sensitizing

### Conclusion/Summary

<b>Skin</b>	: No additional information.
<b>Respiratory</b>	: No additional information.

### Mutagenicity

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## SECTION 11: Toxicological information

Product/ingredient name	Test	Result
Propylidynetrimethanol, propoxylated, reaction products with ammonia	OECD 471 Bacterial Reverse Mutation Test	Negative
	OECD 482 Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells in vitro	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Negative
Amines, polyethylenepoly-, triethylenetetramine fraction	OECD 474 Mammalian Erythrocyte Micronucleus Test	Negative
	OECD 471 Bacterial Reverse Mutation Test	Positive
	OECD 482 Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells in vitro	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Negative

**Conclusion/Summary** : Amines, polyethylenepoly-, triethylenetetramine fraction  
Salicylic acid

The weight of the scientific evidence indicates that this material is non-genotoxic.

Not mutagenic in a standard battery of genetic toxicological tests.

### Carcinogenicity

Product/ingredient name	Test	Species	Exposure	Result	Route of exposure	Target organs
Amines, polyethylenepoly-, triethylenetetramine fraction Salicylic acid	OECD 451 Carcinogenicity Studies	Mouse	3 days per week	Negative	Dermal	-
		Rat	2 years; 7 days per week	Negative	Oral	-

**Conclusion/Summary** : No additional information.

### Reproductive toxicity

Product/ingredient name	Test	Species	Result/Result type	Target organs
Propylidynetrimethanol, propoxylated, reaction products with ammonia Salicylic acid	OECD 421 Reproduction/ Developmental Toxicity Screening Test	Rat	Dermal: >100 mg/kg NOAEL	-
	OECD 416 Two-Generation Reproduction Toxicity Study	Rat	Oral: 250 mg/kg NOAEL	-
	OECD 416 Two-Generation Reproduction Toxicity Study	Mouse	Oral: 100 mg/kg NOAEL	-

**Conclusion/Summary** : Amines, polyethylenepoly-, triethylenetetramine fraction

In accordance with column 2 of Annex VII - X of Regulation (EC) No 1907/2006, the test for this property of the substance does not need to be conducted.

### Teratogenicity

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## SECTION 11: Toxicological information

Product/ingredient name	Test	Species	Result/Result type
Amines, polyethylenepoly-, triethylenetetramine fraction	OECD 414 Prenatal Developmental Toxicity Study	Rat	0 to 750 mg/kg NOAEL
	OECD 414 Prenatal Developmental Toxicity Study	Rabbit	0 to 125 mg/kg NOAEL
Salicylic acid	OECD 414 Prenatal Developmental Toxicity Study	Rabbit - Female	NOAEL

**Conclusion/Summary** : No additional information.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.
- Skin contact** : Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye damage.

### Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : No specific data.
- Ingestion** : Adverse symptoms may include the following:  
stomach pains
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

### 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.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

### Potential chronic health effects

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## SECTION 11: Toxicological information

Product/ingredient name	Test	Result type	Result	Target organs
Amines, polyethylenepoly-, triethylenetetramine fraction	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	NOAEL -	50 mg/kg/d	lungs
Salicylic acid	-	LOAEL -	150 mg/kg/d	liver
	-	LOAEL	250 mg/kg	bones
	OECD 412 Repeated Dose Inhalation Toxicity: 28-day or 14-day Study	NOEC Vapour	700 mg/m <sup>3</sup>	-

**Conclusion/Summary** : No additional information.  
**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.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.  
**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Test	Endpoint	Exposure	Species	Result
Propylidynetrimethanol, propoxylated, reaction products with ammonia	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute EC50	30 minutes Static	Bacteria	1000 mg/l
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute EC50	48 hours Static	Daphnia	13 mg/l
	OECD 201 Alga, Growth Inhibition Test	Acute ErC50 (growth rate)	72 hours Static	Algae	4.4 mg/l
	OECD 203 Fish, Acute Toxicity Test	Acute LC50	96 hours Static	Fish	>100 mg/l
	OECD 201 Alga, Growth Inhibition Test	Chronic NOEC	72 hours Static	Algae	1 mg/l
Amines, polyethylenepoly-, triethylenetetramine fraction	No official guidelines	Acute EC50	30 minutes Static	Bacteria	800 mg/l
	EU EC C.2 Acute Toxicity for Daphnia	Acute EC50	48 hours Static	Daphnia	31.1 mg/l
	OECD 201 Alga, Growth Inhibition Test	Acute ErC50 (growth rate)	72 hours Semi-static	Algae	20 mg/l
	EPA OPPTS EPA OTS 797.1400	Acute LC50	96 hours Static	Fish	330 mg/l
	No official guidelines	Chronic EC10	30 minutes Static	Bacteria	42.5 mg/l
	OECD OECD 202: Part II ( <i>Daphnia</i> sp., Reproduction	Chronic EC10	21 days Semi-	Daphnia	1.9 mg/l

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## SECTION 12: Ecological information

Salicylic acid	Test OECD 201 Alga, Growth Inhibition Test	Chronic NOECr	static 72 hours Semi- static 72 hours	Algae	<2.5	mg/l
	OECD 201 Alga, Growth Inhibition Test	Acute EC50	72 hours	Algae	>100	mg/l
	ISO	Acute EC50	16 hours Static	Bacteria	380	mg/l
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute EC50	48 hours Static	Daphnia	870	mg/l
	OECD 203 Fish, Acute Toxicity Test	Acute LC50	96 hours Flow- through	Fish	1370	mg/l
	OECD OECD 202: Part II ( <i>Daphnia</i> sp., Reproduction Test)	Chronic NOEC	21 days	Daphnia	10	mg/l

**Conclusion/Summary** : Salicylic acid Not toxic or harmful to aquatic organisms.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Period	Result
Propylidynetrimethanol, propoxylated, reaction products with ammonia Amines, polyethylenepoly-, triethylenetetramine fraction	OECD Derived from OECD 301F (Biodegradation Test)	28 days	<5 %
	OECD 302A Inherent Biodegradability: Modified SCAS Test	84 days	20 %
	OECD 301D Ready Biodegradability - Closed Bottle Test	162 days	0 %
Salicylic acid	OECD 301C Ready Biodegradability - Modified MITI Test (I)	14 days	88.1 %

**Conclusion/Summary** : Propylidynetrimethanol, propoxylated, reaction products with ammonia Amines, polyethylenepoly-, triethylenetetramine fraction Not readily biodegradable.  
Not biodegradable

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Propylidynetrimethanol, propoxylated, reaction products with ammonia Amines, polyethylenepoly-, triethylenetetramine fraction	Fresh water >365 days	-	Not readily
	-	-	Not readily
Salicylic acid	-	-	Readily

### 12.3 Bioaccumulative potential

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## SECTION 12: Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Propylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13	-	low
Amines, polyethylenepoly-, triethylenetetramine fraction	-2.65	-	low
Salicylic acid	2.25	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

Not applicable.

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

### 12.7 Other ecological information

## SECTION 13: Disposal considerations

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

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or 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
07 02 04*	other organic solvents, washing liquids and mother liquors

#### Packaging

**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.

**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 spill material and runoff and contact with soil, waterways, drains and sewers.





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**SECTION 14: Transport information**

	14.1 UN number	14.2 UN proper shipping name
ADR/RID	UN3267	Corrosive liquid, basic, organic, n.o.s. (Aliphatic polyamine)
IMDG	UN3267	Corrosive liquid, basic, organic, n.o.s. (Aliphatic polyamine). Marine pollutant
IATA	UN3267	Corrosive liquid, basic, organic, n.o.s. (Aliphatic polyamine)

	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	14.6 Special precautions for user	Additional information
ADR/RID	8 	II	Yes.	<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.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <b><u>Hazard identification number</u></b> 80  <b><u>Special provisions</u></b> 274  <b><u>Tunnel code</u></b> E
IMDG	8 	II	Yes.	<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.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <b><u>Emergency schedules (EmS)</u></b> F-A S-B

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## SECTION 14: Transport information

<b>IATA</b>	8		II	No.	<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.	The environmentally hazardous substance mark may appear if required by other transportation regulations. <b><u>Passenger and Cargo Aircraft</u></b> Quantity limitation: 1 L Packaging instructions: 851 <b><u>Cargo Aircraft Only</u></b> Quantity limitation: 30 L Packaging instructions: 855
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**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable.

## 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)

This product is compliant with the REACH Regulation EC 1907/2006. Huntsman has pre-registered and is registering all of the substances that it manufactures in or imports into the European Economic Area (EEA) that are subject to Title II of the REACH Regulation.

#### 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** : Not applicable.

#### Other EU regulations

**Europe inventory** : All components are listed or exempted.

**Black List Chemicals** : Not listed

**Priority List Chemicals** : Not listed

**Integrated pollution prevention and control list (IPPC) - Air** : Not listed

**Integrated pollution prevention and control list (IPPC) - Water** : Not listed

#### National regulations

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## SECTION 15: Regulatory information

- References** : The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974.
- Australia inventory (AICS)** : All components are listed or exempted.
- Canada inventory** : All components are listed or exempted.
- China inventory (IECSC)** : All components are listed or exempted.
- Japan inventory** : All components are listed or exempted.
- Korea inventory (KECI)** : All components are listed or exempted.
- New Zealand Inventory of Chemicals (NZIoC)** : All components are listed or exempted.
- Philippines inventory (PICCS)** : All components are listed or exempted.
- United States inventory (TSCA 8b)** : All components are listed or exempted.
- Chemical Weapons Convention List Schedule I Chemicals** : Not listed
- Chemical Weapons Convention List Schedule II Chemicals** : Not listed
- Chemical Weapons Convention List Schedule III Chemicals** : Not listed

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

📄 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

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

Classification	Justification
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H312	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	On basis of test data
Aquatic Chronic 2, H411	Calculation method

**Full text of abbreviated H statements** : H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

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## SECTION 16: Other information

**Full text of classifications [CLP/GHS]** : Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4  
 Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4  
 Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2  
 Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3  
 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 Skin Corr. 1B, H314 SKIN CORROSION/IRRITATION - Category 1B  
 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

**Full text of abbreviated R phrases** : R22- Harmful if swallowed.  
 R21/22- Harmful in contact with skin and if swallowed.  
 R34- Causes burns.  
 R41- Risk of serious damage to eyes.  
 R43- May cause sensitisation by skin contact.  
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications [DSD/DPD]** : C - Corrosive  
 Xn - Harmful  
 Xi - Irritant  
 N - Dangerous for the environment

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***THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.***

***Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.***

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**SAFETY DATA SHEET**  
RX771C ALL COLOURS

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Revision date: 8/1/16  
Revision No: 2

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name: RX771C ALL COLOURS

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

**1.3. Details of the supplier of the safety data sheet**

Company name: Robnor Resins Ltd  
31 Athena Avenue  
Elgin Industrial Estate  
Swindon  
Wiltshire  
SN2 8EJ  
United Kingdom  
Tel: +44(0) 1793 823741  
Fax: +44(0) 1793 827033  
Email: [eusds@robnor.co.uk](mailto:eusds@robnor.co.uk)

**1.4. Emergency telephone number**

Emergency tel: +44(0) 1793 823741  
(office hours only)

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification under CLP: Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1A: H317; Aquatic Chronic 2: H411  
Most important adverse effects: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.  
Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

Label elements:

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

Hazard pictograms: GHS07: Exclamation mark  
GHS09: Environmental



Signal words: Warning

Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+352: IF ON SKIN: Wash with plenty of water/soap and water.  
P264: Wash hands thoroughly after handling.

# SAFETY DATA SHEET

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P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+313: If skin irritation occurs: Get medical advice/attention.  
P273: Avoid release to the environment.

### 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

Hazardous ingredients:

BISPHENOL A EPOXY RESIN (MW <700) - REACH registered number(s): 01-2119456619-26-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
500-033-5	25068-38-6	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H411	70-90%

2-ETHYLHEXYL GLYCIDYL ETHER

219-553-6	2461-15-6	-	Skin Irrit. 2: H315; Skin Sens. 1A: H317	10-30%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.  
**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.  
**Ingestion:** Wash out mouth with water. Consult a doctor.  
**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be irritation and redness at the site of contact. May cause sensitisation in susceptible individuals.  
**Eye contact:** There may be irritation and redness. The eyes may water profusely.  
**Ingestion:** There may be soreness and redness of the mouth and throat.  
**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Delayed effects can be expected after long-term exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

[cont...]

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### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

### 7.3. Specific end use(s)

Specific end use(s): No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

Workplace exposure limits: No data available.

### DNEL/PNEC Values

Hazardous ingredients:

BISPHENOL A EPOXY RESIN (MW <700)

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	12.25 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Dermal	8.33 mg/kg	Workers	Systemic
PNEC	Fresh water	6 ug/L	-	-
PNEC	Marine water	600 ng/L	-	-
PNEC	Microorganisms in sewage treatment	10 mg/L	-	-
PNEC	Fresh water sediments	996 ug/kg	-	-
PNEC	Marine sediments	99.6 ug/kg	-	-
PNEC	Soil (agricultural)	196 ug/kg	-	-

[cont...]

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PNEC	Food chain	11 mg/kg	-	-
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### 2-ETHYLHEXYL GLYCIDYL ETHER

Type	Exposure	Value	Population	Effect
DNEL	Dermal	1mg/kg	Workers	Systemic
DNEL	Dermal	4.17mg/kg	Workers	Local
PNEC	Fresh water	7.2ug/L	-	-
PNEC	Marine water	720ng/L	-	-
PNEC	Microorganisms in sewage treatment	17ug/L	-	-
PNEC	Fresh water sediments	286.66mg/kg	-	-
PNEC	Marine sediments	28.66mg/kg	-	-
PNEC	Soil (agricultural)	57.16mg/kg	-	-

### 8.2. Exposure controls

- Engineering measures: Ensure there is sufficient ventilation of the area.
- Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.
- Hand protection: Protective gloves.
- Eye protection: Safety glasses. Ensure eye bath is to hand.
- Skin protection: Protective clothing.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- State: Liquid
- Odour: Odourless
- Viscosity: Viscous
- Relative density: 1.13

### 9.2. Other information

Other information: No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

Conditions to avoid: Heat.

### 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Amines.

### 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

## Section 11: Toxicological information

[cont...]



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### 11.1. Information on toxicological effects

Hazardous ingredients:

BISPHENOL A EPOXY RESIN (MW <700)

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

2-ETHYLHEXYL GLYCIDYL ETHER

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg
VAPOURS	RAT	4H LC50	152	mg/l

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

### Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact. May cause sensitisation in susceptible individuals.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

Hazardous ingredients:

BISPHENOL A EPOXY RESIN (MW <700)

Daphnia magna	48H EC50	1.7	mg/l
GREEN ALGA ( <i>Selenastrum capricornutum</i> )	72H ErC50	2.4	mg/l
RAINBOW TROUT ( <i>Oncorhynchus mykiss</i> )	96H LC50	1.2	mg/l

2-ETHYLHEXYL GLYCIDYL ETHER

DAPHNIA	48H EC50	7.2	mg/l
FISH	96H LC50	>5000	mg/l

### 12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

### 12.4. Mobility in soil

Mobility: Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

[cont...]

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## 12.6. Other adverse effects

Other adverse effects: Very toxic to aquatic organisms.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 07 02 08

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

UN number: UN3082

### 14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(BISPHENOL A EPOXY RESIN (MW <700))

### 14.3. Transport hazard class(es)

Transport class: 9

### 14.4. Packing group

Packing group: III

### 14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

### 14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

### 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

[cont...]

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H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



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