# **SAFETY DATA SHEET**

XD 4463 RESIN



#### SECTION 1: Identification of the substance/mixture and of the company/undertaking **1.1 Product identifier** Product name : XD 4463 RESIN : 00050085 **Product code Product description** ŝ 1.2 Relevant identified uses of the substance or mixture and uses advised against **Product use** : Resin for adhesive systems 1.3 Details of the supplier of the safety data sheet : Huntsman Advanced Materials (Europe)BVBA **Supplier** Everslaan 45 3078 Everberg / Belgium Tel.: +41 61 299 20 41 Fax: +41 61 299 20 40 : Global\_Product\_EHS\_AdMat@huntsman.com e-mail address of person responsible for this SDS 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 Australia: 1800 786 152 New Zealand: 0800 767 437

USA: +1/800/424.9300

# **SECTION 2: Hazards identification**

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2.1 Classification of the sub	stance or mixture
Product definition	: Mixture
Classification according to	Directive 1999/45/EC [DPD]
The product is classified as	dangerous according to Directive 1999/45/EC and its amendments.
Classification	: Xi; R36/38 R43 N; R51/53
Human health hazards	: Irritating to eyes and skin. 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 te	xt of the R phrases or H statements declared above.
See Section 11 for more deta	ailed information on health effects and symptoms.

## 2.2 Label elements

Hazard symbol or symbols



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# **SECTION 2: Hazards identification**

Indication of danger	Irritant, Dangerous for the environment
Risk phrases	<ul> <li>R36/38- Irritating to eyes and skin.</li> <li>R43- May cause sensitisation by skin contact.</li> <li>R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> </ul>
Safety phrases	<ul> <li>S24- Avoid contact with skin.</li> <li>S37- Wear suitable gloves.</li> <li>S61- Avoid release to the environment. Refer to special instructions/safety data sheet.</li> </ul>
Hazardous ingredients	reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) bisphenol A - epoxy resins, number average MW >700 - <1100
Supplemental label elements	Not applicable.
Supplemental label elements	Contains epoxy constituents. See information supplied by the manufacturer.
Special packaging requirem	<u>nts</u>
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	Not available.

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

		<u>Cla</u>	<u>ssification</u>	
Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
CAS: 25068-38-6 EC: 500-033-5 RRN: 01-2119456619- 26	30-60	Xi; R36/38 R43 N; R51/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
CAS: 60506-81-2 EC: 262-270-8	7-13	Xi; R36	Eye Irrit. 2, H319	[1]
	CAS: 25068-38-6 EC: 500-033-5 RRN: 01-2119456619- 26 CAS: 60506-81-2	CAS: 25068-38-6 EC: 500-033-5 RRN: 01-2119456619- 26 CAS: 60506-81-2 7-13	Identifiers         %         67/548/EEC           CAS: 25068-38-6         30-60         Xi; R36/38           EC: 500-033-5         RRN: 01-2119456619-         30-60         Xi; R36/38           CAS: 60506-81-2         7-13         Xi; R36	CAS: 25068-38-6         30-60         Xi; R36/38         Skin Irrit. 2, H315         Eye Irrit. 2, H319         Skin Sens. 1, H317         Aquatic Chronic 2, H411           CAS: 60506-81-2         7-13         Xi; R36         Eye Irrit. 2, H319         Skin Sens. 1, H317         Skin Sens. 1, H317

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SECTION 3: Co	mposition/inform	nation	on ingredients		
bisphenol A - epoxy resins, number average MW >700 - <1100	CAS: 25068-38-6	1-3	Xi; R36/38 R43	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
			See section 16 for the full text of the R- phrases declared above	See Section 16 for the full text of the H statements declared above.	

<u>Type</u>

[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

# **SECTION 4: First aid measures**

4.1 Description of first aid m	res	
Eye contact	mmediately flush eyes with plenty of water, occasionally lifting the upper a eyelids. Check for and remove any contact lenses. Continue to rinse for a ninutes. Get medical attention.	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for br not breathing, if breathing is irregular or if respiratory arrest occurs, provide espiration or oxygen by trained personnel. It may be dangerous to the per providing aid to give mouth-to-mouth resuscitation. Get medical attention is nealth effects persist or are severe. If unconscious, place in recovery posi- get medical attention immediately. Maintain an open airway. Loosen tight such as a collar, tie, belt or waistband.	e artificial rson if adverse tion and
Skin contact	Vash contaminated skin with soap and water. Remove contaminated clot shoes. Wash contaminated clothing thoroughly with water before removin vear gloves. Continue to rinse for at least 10 minutes. Get medical attent event of any complaints or symptoms, avoid further exposure. Wash cloth euse. Clean shoes thoroughly before reuse.	g it, or ion. In the
Ingestion	Nash out mouth with water. Remove dentures if any. Remove victim to fr and keep at rest in a position comfortable for breathing. If material has be wallowed and the exposed person is conscious, give small quantities of w drink. Stop if the exposed person feels sick as vomiting may be dangerous nduce vomiting unless directed to do so by medical personnel. If vomiting he head should be kept low so that vomit does not enter the lungs. Get m attention if adverse health effects persist or are severe. Never give anythin nouth to an unconscious person. If unconscious, place in recovery position nedical attention immediately. Maintain an open airway. Loosen tight clot as a collar, tie, belt or waistband.	en vater to s. Do not occurs, nedical ng by on and get
Protection of first-aiders	To action shall be taken involving any personal risk or without suitable train nay be dangerous to the person providing aid to give mouth-to-mouth resulvash contaminated clothing thoroughly with water before removing it, or w loves.	uscitation.
4.2 Most important symptom	d effects, both acute and delayed	
Potential acute health effec	, <b>,,,</b>	
Eye contact	rritating to eyes.	
Inhalation	No known significant effects or critical hazards.	
Skin contact	rritating to skin. May cause sensitisation by skin contact.	

Ingestion : Irritating to mouth, throat and stomach.

**Over-exposure signs/symptoms** 

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SECTION 4: Firs	st aid measures		

Eye contact	: Adverse symptoms may include the following: irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if

	quantities have been ingested or inhaled.
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 f	rom 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.			
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides			
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. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.			
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**

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# 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.

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SECTION 6: Acciden	ta	l release measur	es			
For emergency responders	:	If specialised clothing is information in Section 8 additional information o	on suitable and unsuita			
6.2 Environmental precautions	:	Avoid dispersal of spilt and sewers. Inform the pollution (sewers, water to the environment if rel	relevant authorities if th ways, soil or air). Wate	he product ha	as	caused environmental
6.3 Methods and materials fo	r c	ontainment and cleaning	ng up			
Small spill	:	Stop leak if without risk up if water-soluble. Alter material and place in an licensed waste disposa	ernatively, or if water-ins appropriate waste disp	soluble, abso	rb	with an inert dry
Large spill	:	Stop leak if without risk from upwind. Prevent e areas. Wash spillages Contain and collect spill earth, vermiculite or dia according to local regul Contaminated absorber	ntry into sewers, water into an effluent treatme age with non-combustil tomaceous earth and p ations. Dispose of via a	courses, bas nt plant or pr ble, absorber lace in conta a licensed wa	nt ine ast	ments or confined eed as follows. material e.g. sand, er for disposal e disposal contractor.
6.4 Reference to other sections	:	See Section 1 for emer See Section 8 for inform See Section 13 for addi	nation on appropriate pe	ersonal prote	ecti	ive equipment.

# **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 ingest. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. 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: 2 to 40°C (35.6 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. 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.

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SECTION 7: Handl	ing and storage			
Storage hazard class	: Storage class 10, Envir	onmentally hazardous liqu	ids	

Huntsman Advanced Materials	
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

# **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.

Workplace exposure limits (for total dust and inhalable quartz dust) must be complied with. If this is not possible, then suitable dust masks must be worn.

WARNING! This product contains quartz, which has been classified by IARC as carcinogenic for humans (Group 1), and which can cause silicosis and lung cancer following exposure to respirable dust. It is therefore important to take particular care to avoid inhalation exposure when mechanically processing cured material (e.g. grinding, sanding, sawing).

QUARTZ (CAS RN 14808-60-7): United Kingdom: TWA: 0.1 mg/m<sup>3</sup> 8 hour(s). Form: respirable dust Ireland: OELV-8hr: 0.1 mg/m<sup>3</sup> 8 hour(s). Form: respirable dust Switzerland: TWA: 0.15 mg/m<sup>3</sup> 8 hour(s). Form: respirable dust Australia: TWA: 0.1 mg/m<sup>3</sup> 8 hour(s)

procedures

**Recommended monitoring** : 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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### **Derived effect levels**

No DELs available.

#### Predicted effect concentrations

No PECs available.

# 8.2 Exposure controls

controls	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
Individual protection measures	

#### : Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures** 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.

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SECTION 8: Exposu	ire controls/pers	onal protection	
Eye/face protection			andard should be used when a risk I exposure to liquid splashes, mists
Skin protection			
Hand protection			ng with an approved standard should oducts if a risk assessment indicates
Material of gloves for long term application (BTT>480min):	: Ethyl Vinyl Alcohol	Laminate (EVAL), butyl rubb	er
Material of gloves for short term/splash application (10min <btt<480min):< td=""><td>: neoprene, nitrile ru</td><td>bber</td><td></td></btt<480min):<>	: neoprene, nitrile ru	bber	
(BTT = Break Through Time)			
	Suitability and dura duration of contact	bility of a glove is dependent chemical resistance of glove	EN 374 (Europe), F739 (US). t on usage, e.g. frequency and e material and dexterity. Always see tion can be found for instance at
Body protection		nd the risks involved and sho	uld be selected based on the task ould be approved by a specialist
Other skin protection	selected based on	ar and any additional skin pro the task being performed and sialist before handling this pro	otection measures should be d the risks involved and should be oduct.
Respiratory protection	must be based on		ry protection. Respirator selection re levels, the hazards of the product irator.
Environmental exposure controls	they comply with th cases, fume scrubl		

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Appearance		
Physical state	1	Liquid. [Paste.]
Colour	1	Beige.
Odour	1	Slight
Odour threshold	1	Not available.
рН	1	Not available.
Melting point/freezing point	1	Not available.
Initial boiling point and boiling range	:	Not available.
Flash point	:	Not available.
Evaporation rate	÷	Not available.
Flammability (solid, gas)	1	Not available.
Burning time	1	Not applicable.
Burning rate	1	Not applicable.
Upper/lower flammability or explosive limits	:	Not available.

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<b>SECTION 9: Physical</b>	and chemical pro	perties			
Vapour pressure	: Not available.				
Vapour density	: Not available.				
Relative density	: Not available.				
Solubility(ies)					
Water solubility	: practically insoluble				
	20 deg C				
Partition coefficient: n- octanol/water (LogKow)	: Not available.				
Auto-ignition temperature	: Not available.				
<b>Decomposition temperature</b>	: Not available.				
Viscosity	: Dynamic: 40000 to	: Dynamic: 40000 to 70000 mPa·s 25			
Explosive properties	: Not available.				
Oxidising properties	: Not available.				

9.2	Other	informa
De	ensity	

: 1.4 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	: Burning produces obnoxious and toxic fumes. Carbon oxides		
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.		

# **SECTION 11: Toxicological information**

# **11.1 Information on toxicological effects**

**Acute toxicity** 

Product/ingredient name	Endpoint	Species	Result	Exposure
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	LC0 Inhalation Vapour	Rat - Male	0.00001 ppm	5 hours
	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Female	>2000 mg/kg	-

Irritation/Corrosion

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# **SECTION 11: Toxicological information**

Product/ingredient name	Test	Species	Route of exposure	Result
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	-	Mild irritant
	OECD 405 Acute Eye Irritation/Corrosion	Rabbit	-	Mild irritant

Conclusion/Summary

: Not available.

Eyes : Not available.

**Respiratory** : Not applicable.

# Sensitiser

Skin

Product/ingredient name	Test	Route of exposure	Species	Result
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD 429 Skin Sensitisation: Local Lymph Node Assay	skin	Mouse	Sensitising

Conclusion/Summary

: No additional information.

## **Mutagenicity**

Product/ingredient name	Test	Result
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD 471 Bacterial Reverse Mutation Test	Positive
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Positive
	OECD 478 Genetic Toxicology: Rodent Dominant Lethal Test	Negative
	EPA OPPTS	Negative

## **Carcinogenicity**

Product/ingredient name	Test	Species	Exposure	Result	Route of exposure	Target organs
reaction product: bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD 453 Combined Chronic Toxicity/Carcinogenicity Studies	Rat	2 years; 7 days per week	Negative	Oral	-
	OECD 453 Combined Chronic Toxicity/Carcinogenicity Studies	Rat	2 years; 5 days per week	Negative	Dermal	-
	OECD 453 Combined Chronic Toxicity/Carcinogenicity Studies	Mouse	2 years; 3 days per week	Negative	Dermal	-

**Reproductive toxicity** 

Pro	oduct/ingredient name	Test	Species	Result/Result type	Target organs
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SECTION 11: Toxico	logical information						
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD 416 Two-Generation Reproduction Toxicity Study	Rat	Oral: 540 mg/kg NOEL :				
Teratogenicity			+ +				
Product/ingredient name	Test	Species	Result/Result typ	e			
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD 414 Prenatal Developmen Toxicity Study	ntal Rat - Female	>540 mg/kg NOEL :				
, , , , , , , , , , , , , , , , , , ,	EPA CFR	Rabbit - Female	>300 mg/kg NOEL :				
	OECD 414 Prenatal Developmen Toxicity Study	ntal Rabbit - Female	180 mg/kg NOAEL				
Information on the likely routes of exposure	: Not available.						
Potential acute health effect	ts						
Inhalation	: No known significant effects o	r critical hazards.					
Ingestion	: Irritating to mouth, throat and stomach.						
Skin contact	: Irritating to skin. May cause sensitisation by skin contact.						
Eye contact	: Irritating to eyes.						
Symptoms related to the ph	ysical, chemical and toxicologic	cal characteristics					
Inhalation	: No specific data.						
Ingestion	: No specific data.	: No specific data.					
Skin contact	: Adverse symptoms may include the following:						

	irritation redness
Eye contact :	Adverse symptoms may include the following: irritation watering redness
Delayed and immediate effect	s and also chronic effects from short and long term exposu

# 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	4	Not available.
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# Potential chronic health effects

Product/ingredient name	Test	Result type	Result	Target organs
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	NOAEL -	50 mg/kg	-
	OECD 411 Subchronic Dermal Toxicity: 90-day Study	NOEL :	10 mg/kg	-
	OECD 411 Subchronic Dermal Toxicity: 90-day Study	NOAEL	100 mg/kg	-
Conclusion/Summary	: Not available.			

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SECTION 11: Toxico	ological informatior	1		
General	: Once sensitized, a severation to very low levels.	ere allergic reaction may or	ccur when subsequently e	exposed
Carcinogenicity	: No known significant ef	fects or critical hazards.		
IARC	: quartz (SiO2)			1
Mutagenicity	: No known significant effects or critical hazards.			
Teratogenicity	: No known significant effects or critical hazards.			
<b>Developmental effects</b>	: 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	Endpo	int	Exposure	<b>Species</b>	Result	
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	-	Acute EC50 72 hours / Static	Algae	9.4	mg/L		
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute	EC50	48 hours Static	Daphnia	1.7	mg/L
	-	Acute	IC50	3 hours Static	Bacteria	>100	mg/L
	OECD 203 Fish, Acute Toxicity Test	Acute	LC50	96 hours Static	Fish	1.5	mg/L
	OECD 211 Daphnia Magna Reproduction Test	Chronic	NOEC	21 days Semi- static	Daphnia	0.3	mg/L

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Period	Result
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD Derived from OECD 301F (Biodegradation Test)	28 days	5 %
Conclusion/Summary	: reaction product: bisphenol A-(epichlorh molecular weight < 700): Not readily bio		umber average

molecular weight < 700). Not readily biodegradable.					
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability		
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	Fresh water 4.83 days Fresh water 3.58 days Fresh water 7.1 days	-	Not readily		

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	3.242	31	low

# 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

	alegical information			
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# SECTION 12: Ecological information

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. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
07 02 08*	other still bottoms and reaction residues
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 spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	14.1 UN number	14.2 UN proper shipping name			
ADR/RID	UN3082	Environmentally hazardous substance, liquid, n.o.s. BISPHENOL A EPOXY RESIN (reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700))			
IMDG	UN3082	Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A EPOXY RESIN) (reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)). Marine pollutant (reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700))			
ΙΑΤΑ	UN3082	Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A EPOXY RESIN) (reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700))			

Conforms to Regulation	on (EC) No. 1907/2006 (REACH), /	Annex II - United Kingdo	m (UK)	
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# **ECTION 14: Transport Information**

	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	14.6 Special precautions for user	Additional information
ADR/RID	9		Yes.	Not available.	Hazard identification number 90 Special provisions 274 335 601 Tunnel code E
IMDG	9 ***		Yes.	Not available.	Emergency schedules (EmS) F-A, S-F
ΙΑΤΑ	9		Yes.	Not available.	Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft OnlyQuantity limitation: 450 L Packaging instructions: 964

14.7 Transport in bulk : Not applicable. according to Annex II of MARPOL 73/78 and the IBC Code

# **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 substar	nces subject to authorisation
Substances of very high of	<u>concern</u>
None of the components a	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

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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			
References	recognised abbreviati	on for the Chemicals Hazar	er Regulation 6 of CHIP (CHIP is the d Information and Packaging d Safety at Work Act 1974.
International regulations			
Chemical Weapons Convention List Schedule I Chemicals	: Not listed		
Chemical Weapons Convention List Schedule II Chemicals	: Not listed		
Chemical Weapons Convention List Schedule II Chemicals	: Not listed		
15.2 Chemical Safety Assessment	: This product contains required.	substances for which Cher	nical Safety Assessments are still

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>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</li> </ul>
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Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

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 Aquatic Chronic 2, H411			Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	: H315 H317 H319 H411	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.	

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SECTION 16: Other	information			
Full text of classifications [CLP/GHS]	: Aquatic Chronic 2, H4 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317		GE/ EYE IRRITATION - Category 2 RITATION - Category 2	
Full text of abbreviated R phrases		tisation by skin contact.	ong-term adverse effects in the	
Full text of classifications [DSD/DPD]	: Xi - Irritant N - Dangerous for the	environment		
MSDS no.	: 00050085			
Date of printing	: 12/19/2011.			
Date of issue/ Date of revision	: 12/19/2011.			
Date of previous issue	: No previous validation			
Version	: 1			

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