SAFETY DATA SHEET

ARALDITE® 420 A/B



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

	—
1.1 Product identifier	
Product name	: ARALDITE® 420 A/B
Product code	: 00048073
Product description	:
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: 2-Component adhesive system
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
1.4 Emergency telephone nu	mber
<u>Supplier</u>	
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

2.1 Classification of the substance or mixture **Product definition** : Working pack (preparation) Classification according to Directive 1999/45/EC [DPD] The product is classified as dangerous according to Directive 1999/45/EC and its amendments. **Classification** : C; R34 R43 N; R51/53 Human health hazards

Environmental hazards

- : Causes burns. May cause sensitisation by skin contact.
- : 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 symbol or symbols :



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SECTION 2: Hazards	s ide	entification		
Indication of danger	: (Corrosive, Dangerou	is for the environment	
Risk phrases	l I			long-term adverse effects in the
Safety phrases	 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of soap and water. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S61- Avoid release to the environment. Refer to special instructions/safety data sheet. 			
Hazardous ingredients	r	eaction product: bis nolecular weight < 7 1,7,10-trioxatridecan		boxy resin (number average
Supplemental label elements	: 1	Not applicable.		
Supplemental label elements	: (Contains epoxy cons	tituents. See information su	pplied by the manufacturer.
Special packaging requirer	nents	<u>5</u>		
Containers to be fitted with child-resistant fastenings	: 1	Not applicable.		
Tactile warning of danger	I	Not applicable		

SECTION 3: Composition/information on ingredients

: Not available.

Substance/mixture

Other hazards which do

not result in classification

: Working pack (preparation)

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SECTION 3: Composition/information on ingredients

			Class	sification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
reaction product: bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700)	CAS: 25068-38-6 EC: 500-033-5 RRN: 01-2119456619- 26	60-100	Xi; R36/38 R43 N; R51/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
4,7,10-trioxatridecane- 1,13-diamine	CAS: 4246-51-9 EC: 224-207-2	13-30	C; R34 R52/53	Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	[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 measures

Eye contact	:	Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	:	Get medical attention immediately. 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. Wash contaminated skin with 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. 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.

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SECTION 4: First ai	d measures		
Protection of first-aiders	suspected that fun or self-contained b aid to give mouth-t	es are still present, the rescue reathing apparatus. It may be	sk or without suitable training. If it is er should wear an appropriate mask dangerous to the person providing contaminated clothing thoroughly
4.2 Most important sympton Potential acute health effe		cute and delayed	
Eye contact	: Corrosive to eyes.	Causes burns.	
Inhalation	: May give off gas, v system. Exposure	apor or dust that is very irritati	ng or corrosive to the respiratory ay cause a health hazard. Serious
Skin contact	: Corrosive to the sk	in. Causes burns. May cause	e sensitisation by skin contact.
Ingestion	: May cause burns t	o mouth, throat and stomach.	
Over-exposure signs/sym	<u>ptoms</u>		
Eye contact	: Adverse symptom pain watering redness	s may include the following:	
Inhalation	: No specific data.		
Skin contact	: Adverse symptom pain or irritation redness blistering may occ	s may include the following: ur	
Ingestion	: Adverse symptom stomach pains	s may include the following:	
4.3 Indication of any immed	liate medical attention	and special treatment neede	ed
Notes to physician			n a fire, symptoms may be delayed. medical surveillance for 48 hours.
Specific treatments		ment and supportive therapy a nt should be kept under medic	s indicated. Following severe al 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 nitrogen oxides metal oxide/oxides

5.3 Advice for firefighters

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SECTION 5: Firefig	hting measures			
Special precautions for fire-fighters	there is a fire. No ac training. This materia	tion shall be taken involving al is toxic to aquatic organism contained and prevented fro	ns from the vicinity of the incide any personal risk or without sui ns. Fire water contaminated wi om being discharged to any	table
Special protective equipment for fire-fighter	-		quipment and self-contained operated in positive pressure	

conforming to European standard EN 469 will provide a basic level of protection for

SECTION 6: Accidental release measures

chemical incidents.

6.1 Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel entering. Do not touch or walk through spilt 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 Section 8 for additional information on hygiene measures. 6.2 Environmental : 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 precautions pollution (sewers, waterways, soil or air). Water polluting material. May be harmful

to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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. Refer to special instructions/safety data sheet. 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
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SECTION 7: Handling and storage

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. 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.
7.3 Specific end use(s)		
Recommendations	1	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.

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

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

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SECTION 8: Exposu	re controls/pers	sonal protection	
Hygiene measures	eating, smoking a Appropriate techr Contaminated wo contaminated clo	nd using the lavatory and at th iques should be used to remo rk clothing should not be allow	er handling chemical products, before ne end of the working period. ve potentially contaminated clothing. ved out of the workplace. Wash hat eyewash stations and safety
Eye/face protection			ndard should be used when a risk exposure to liquid splashes, mists
Skin protection			
Hand protection	: Chemical-resistar be worn at all time this is necessary.	nt, impervious gloves complyin es when handling chemical pro	g with an approved standard should oducts if a risk assessment indicates
Material of gloves for long term application (BTT>480min):	: butyl rubber, Ethy	I Vinyl Alcohol Laminate (EVA	L)
Material of gloves for short term/splash application (10min <btt<480min):< td=""><td>: nitrile rubber</td><td></td><td></td></btt<480min):<>	: nitrile rubber		
(BTT = Break Through Time)			
	Suitability and duration of contact	ability of a glove is dependent at, chemical resistance of glove	EN 374 (Europe), F739 (US). on usage, e.g. frequency and e material and dexterity. Always seel ion can be found for instance at
Body protection		and the risks involved and sho	uld be selected based on the task uld be approved by a specialist
Other skin protection	selected based or	ear and any additional skin pro n the task being performed and ecialist before handling this pro	d the risks involved and should be
Respiratory protection	must be based or		ry protection. Respirator selection re levels, the hazards of the product rator.
Environmental exposure controls	they comply with cases, fume scru		

SECTION 9: Physical and chemical properties

9.1 Information on basic physica	I and chemical properties	
Appearance		
Physical state	: Liquid.	
Colour	: Not available.	
Odour	: Not available.	
Odour threshold	: Not available.	
рН	: Not available.	
Melting point/freezing point	: Not available.	
Initial boiling point and boiling range	: Not available.	
Flash point	: Closed cup: >100°C [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)]	
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not available.	
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SECTION 9: Physical	and chemical pro	perties		
Burning time	: Not applicable.			
Burning rate	: Not applicable.			
Upper/lower flammability or explosive limits	: Not available.			
Vapour pressure	: Not available.			
Vapour density	: Not available.			
Relative density	: Not available.			
Solubility(ies)				
Water solubility	:			
Partition coefficient: n- octanol/water (LogK₀w)	: Not available.			
Auto-ignition temperature	: Not available.			
Decomposition temperature	: Not available.			
Viscosity	: Not available.			
Explosive properties	: Not available.			
Oxidising properties	: Not available.			
9.2 Other information				
Density	: 1.2 g/cm ³ [20°C (68	3°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, Nitrogen 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

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ECTION 11: Toxico	logical inforn	nation				
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	LC0 Inhalation Va		Rat - Male	0.0	00001 ppm	5 hours
	LD50 Dermal		Rat - Male, Female	>2	2000 mg/kg	-
	LD50 Oral		Rat - Female	>2	2000 mg/kg	-
rritation/Corrosion	1					
Product/ingredient name	Т	est	Spec	ies	Route of exposure	Result
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD 404 Acute Irritation/Corrosio		Rabbit		Skin	Mild irritant
	OECD 405 Acute Irritation/Corrosio		Rabbit		Eyes	Mild irritant
Conclusion/Summary Skin	: reaction product bisphenol A- (epichlorhydrin) resin (number a molecular weig); epoxy average	ntly irritating to	o the s	skin.	
Eyes	: reaction product bisphenol A- (epichlorhydrin) resin (number a molecular weig	ct: Sligi); epoxy average	ntly irritating to	o the e	eyes.	
Respiratory	: reaction produc bisphenol A- (epichlorhydrin) resin (number a molecular weig); epoxy average	known signific	ant ef	fects or critical	hazards.
Sensitiser	1	1				1
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 Mutagenicity	: No additional ir	nformation.				
Product/ingredient name	Т	est		Result		
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD 471 Bacte Mutation Test		Positive			
	OECD 476 In vitre Gene Mutation Te		ell Positive			

Carcinogenicity

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Negative

Negative

OECD 478 Genetic Toxicology: Rodent Dominant Lethal Test

EPA OPPTS

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SECTION 11: Toxicological information

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

Product/ingredient name	Test	Species	Result/Result type	Target organs
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 type
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	OECD 414 Prenatal Developmental Toxicity Study	Rat - Female	>540 mg/kg NOEL :
	EPA CFR	Rabbit - Female	>300 mg/kg NOEL :
	OECD 414 Prenatal Developmental Toxicity Study	Rabbit - Female	180 mg/kg NOAEL
Information on the likely	: Not available.		

Information on the likely routes of exposure

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	: May cause burns to mouth, throat and stomach.
Skin contact	: Corrosive to the skin. Causes burns. May cause sensitisation by skin contact.
Eye contact	: Corrosive to eyes. Causes burns.
Symptoms related to the ph	vsical, 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 offe	ate and also chronic offects from short and long form expessive

Delayed and immediate effects and also chronic effects from short and long term exposure

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SECTION 11: Toxicological information

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	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.			•
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	Endpo	int	Exposure	Species	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 %

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Conclusion/Summary	: reaction product: bispheno molecular weight < 700): N	l A-(epichlorhydrin); epoxy resi lot readily biodegradable.	n (number average
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.
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

<u>Product</u>	
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	

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Methods of disposal		recycled. Incineration or lar	nimised wherever possible. Waste ndfill should only be considered

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	UN2735	Amines, liquid, corrosive, n.o.s. TRIOXATRIDECANEDIAMINE
IMDG	UN2735	Amines, liquid, corrosive, n.o.s. (TRIOXATRIDECANEDIAMINE). Marine pollutant (reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700))
ΙΑΤΑ	UN2735	Amines, liquid, corrosive, n.o.s. (TRIOXATRIDECANEDIAMINE)

	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		Yes.	Not available.	Hazard identification number 80 Special provisions 274 Tunnel code E
IMDG	8	111	Yes.	Not available.	Emergency schedules (EmS) F-A, S-B
ΙΑΤΑ	8		Yes.	Not available.	Passenger and Cargo Aircraft Quantity limitation: 5 L Packaging instructions: 852 Cargo Aircraft OnlyQuantity limitation: 60 L Packaging instructions: 856

14.7 Transport in bulk: Not applicable.according to Annex II ofMARPOL 73/78 and the IBCCode

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SECTION 15: Regula	atory information	on	
15.1 Safety, health and envir	ronmental regulation	s/legislation specific for the s	ubstance or mixture
EU Regulation (EC) No. 190	07/2006 (REACH)		
Annex XIV - List of substa	inces subject to auth	orisation	
Substances of very high	<u>concern</u>		
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	1		
Other EU regulations			
Europe inventory	: All components a	re 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			
References	recognised abbre	Safety Data Sheets comes unde wiation for the Chemicals Hazar s is an addition to the Health an	
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 III Chemicals	: Not listed		
15.2 Chemical Safety	: This product cont	ains substances for which Cher	nical Safety Assessments are still

Assessment	required.	

SECTION 16: Other information

 \checkmark Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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SECTION 16: Other	information		
Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411			
Procedure used to derive th	e classification according t	to Regulation (EC) No. 1272	2/2008 [CLP/GHS]
Classi	fication	Jus	tification
Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411		Expert judgment Expert judgment Expert judgment Expert judgment	
Full text of abbreviated H statements	H315 Causes skin irr H317 May cause an H318 Causes serious H319 Causes serious H411 Toxic to aquati	allergic skin reaction. s eye damage.	
Full text of classifications [CLP/GHS]			RONIC) - Category 3 EYE IRRITATION - Category 1 EYE IRRITATION - Category 2 ATION - Category 1B ATION - Category 2
Full text of abbreviated R ohrases	: R34- Causes burns. R36/38- Irritating to eyes R43- May cause sensitis R51/53- Toxic to aquatic aquatic environment.	s and skin. sation by skin contact. c organisms, may cause long	
Full text of classifications [DSD/DPD]	: C - Corrosive Xi - Irritant N - Dangerous for the er	nvironment	
WSDS no.	: 00048073		
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Date of issue/ Date of revision	: 3/15/2012.		
Date of previous issue	: No previous validation.		
Version	: 1		

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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

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Conforms to Regulation	n (EC) No. 1907/2006 (REACH)	, Annex II - United Kingdo	m (UK)	

SECTION 16: Other information

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