# SAFETY DATA SHEET

ARADUR® 140 BDB



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

undertaking		
1.1 Product identifier		
Product name	:	ARADUR® 140 BDB
EC number	:	500-191-5
Chemical name	:	fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
<b>REACH Registration numb</b>	er	
Registration number / Legal entity	:	01-2119972320-44-0000
		Huntsman Advanced Materials (Deutschland) GmbH Ernst-Schering-Str. 14 D-59192 Bergkamen Germany Tel: +49 2307 20882550 Fax: +49 2307 20882407
CAS number	:	68082-29-1
Product code	:	00073305
Product description	:	Hardener for coating systems
Other means of identification	:	Not available.
1.2 Relevant identified uses	of t	he substance or mixture and uses advised against
Product use	:	Hardener for coating systems
1.3 Details of the supplier of	f the	e 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 nu	umb	er
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: + 01 22 42 97 5222

India: + 91 22 42 87 5333 Australia: 1800 786 152 New Zealand: 0800 767 437 USA: +1/800/424.9300

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# 2.1 Classification of the substance or mixture

Product definition : UVCB

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

Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411

Classification according to Directive 67/548/EEC [DSD]

Xi; R41, R38 R43 N; R51/53

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	:	Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements		
General	1	Not applicable.
Prevention	:	Wear protective gloves: > 8 hours (breakthrough time): butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL). Wear eye or face protection. Avoid release to the environment.
Response	:	IF IN EYES: Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or physician.
Storage	:	Not applicable.
Disposal	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	1	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	;	Not applicable.
2.3 Other hazards		
Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	:	PBT: No. P: No. B: No. T: No.

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SECTION 2: Hazards			
Substance meets the criteria for vPvB according	: vPvB: No. vP: No. vB: No.		
to Regulation (EC) No. 1907/2006, Annex XIII	VI . NO. VD. NO.		
Other hazards which do	: None known.		

not result in classification

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

#### 3.1 Substances

: UVCB

			Class	ification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	CAS: 68082-29-1 EC: 500-191-5 RRN: 01-2119972320-44	60-100	Xi; R41, R38 R43 N; R51/53	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	[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>

[\*] Substance

[A] Constituent

[B] Impurity

[C] Stabilising additive

## Other means of identification

REACH Product name	CAS no.	Other	CAS no.
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1		

# **SECTION 4: First aid measures**

4.1 Description of first aid n	easures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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# SECTION 4: First aid measures

Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: 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 effe		
Eye contact	Causes serious eye damage.	
Inhalation	May give off gas, vapor or dust that is very irritating or corrosive to the respira system. Exposure to decomposition products may cause a health hazard. S effects may be delayed following exposure.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Ingestion	May cause burns to mouth, throat and stomach.	
Over-exposure signs/sym	<u>8</u>	
Eye contact	Adverse symptoms may include the following: pain watering redness	
Inhalation	No specific data.	
Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur	
Ingestion	Adverse symptoms may include the following: stomach pains	
4.3 Indication of any immed	nedical attention and special treatment needed	
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be c The exposed person may need to be kept under medical surveillance for 48	
Specific treatments	Symptomatic treatment and supportive therapy as indicated. Following sever exposure the patient should be kept under medical review for at least 48 hou	

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SECTION 5: Firefigh	ting	measures		
5.1 Extinguishing media				
Suitable extinguishing media	: U:	se an extinguishir	ng agent suitable for the surrou	unding fire.
Unsuitable extinguishing media	: N	one known.		
5.2 Special hazards arising f	rom th	e substance or	mixture	
Hazards from the substance or mixture	<ul> <li>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.</li> </ul>			
Hazardous thermal decomposition products	ca Ca	Decomposition products may include the following materials: carbon dioxide Carbon monoxide nitrogen oxides		
5.3 Advice for firefighters				
Special precautions for fire-fighters	th		e scene by removing all persor action shall be taken involving a	ns from the vicinity of the incident if any personal risk or without
Special protective equipment for fire-fighters	br m cc	eathing apparatus ode. Clothing for	fire-fighters (including helmets pean standard EN 469 will pro	quipment and self-contained operated in positive pressure s, protective boots and gloves) vide a basic level of protection for
Additional information	: N	ot explosive		

# ai reiease illeasures

6.1 Personal precautions, pro	tective 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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and materials for	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop

# Stop leak if without risk. Move containers from spill area. Dilute with water and 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. υμ

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SECTION 6: Acc	idental release mea	sures	
Large spill	from upwind. Prev areas. Wash spilla Contain and collect earth, vermiculite c according to local r	ent entry into sewers, water co ages into an effluent treatment t spillage with non-combustible or diatomaceous earth and plac regulations. Dispose of via a lice	plant or proceed as follows. , absorbent material e.g. sand,
6.4 Reference to other sections	See Section 8 for in	emergency contact information. nformation on appropriate pers additional waste treatment info	onal protective 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 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: 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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Storage hazard class Huntsman Advanced Materials	Storage class 10, Environmentally hazardous liquids
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**

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 measu	<u>res</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Material of gloves for long term application (BTT>480min):	: butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL)

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Material of gloves for short term/splash application (10min <btt<480min):< td=""><td>: nitrile rubber, neo</td><td>prene</td><td></td></btt<480min):<>	: nitrile rubber, neo	prene	
(BTT = Break Through Time)			
	Suitability and du duration of conta		on usage, e.g. frequency and
Body protection		and the risks involved and shou	ld be selected based on the task Id be approved by a specialist
Other skin protection	selected based o	ear and any additional skin pro- n the task being performed and ecialist before handling this pro-	the risks involved and should be
Respiratory protection	must be based of		y protection. Respirator selection e levels, the hazards of the product ator.
Environmental exposure controls	ensure they comp In some cases, fu		ironmental protection legislation. ering modifications to the process

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

.1 Information on basic physic Appearance		
Physical state	:	Liquid.
Colour	:	Brown.
Odour	:	Amine-like.
Odour threshold	:	Not available.
рН	:	10.98 [Conc. (% w/w): 1%]
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	:	Not available.
Flash point	:	Closed cup: >200°C
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Burning time	:	Not applicable.
Burning rate	1	Not applicable.
Upper/lower flammability or explosive limits	:	Not available.
Vapour pressure	:	<0.01 kPa [room temperature]
Vapour density	:	Not available.
Relative density	:	0.9691
Solubility(ies)		
Water solubility	:	practically insoluble
		20 deg C

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<b>SECTION 9: Physica</b>	nd chemical properties	
Partition coefficient: n-octa water (LogKow)	: Not available.	
Auto-ignition temperature	: 401°C	
Decomposition temperature	: >250°C	
Viscosity	: Dynamic (75°C): 300 - 600 mPa⋅s Kinematic: Not available. Kinematic (40°C): Not available.	
Explosive properties	: Not explosive	
Oxidising properties	: None.	
9.2 Other information		
Density	: 0.96 g/cm³ [20°C (68°F)]	
<b>SECTION 10: Stabilit</b>	nd reactivity	
10.1 Reactivity	No specific test data related to reactivity available for this product or it	ts 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	l 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 should not be produced.	on products

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# Acute toxicity

Product/ingredient name	Endpoint	Species	Result	Exposure
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Female	>2000 mg/kg	-

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

# Irritation/Corrosion

Test	Species	Route of exposure	Result
OECD OECD 439- In Vitro Skin Irritation - Reconstructed Human Epidermis Test Method	Human skin model	Skin	Irritant
OECD 405 Acute Eye Irritation/ Corrosion	Rabbit	Eyes	Severe irritant
-	OECD OECD 439- In Vitro Skin Irritation - Reconstructed Human Epidermis Test Method OECD 405 Acute Eye Irritation/	OECD OECD 439- In Vitro Skin Irritation - Reconstructed Human Epidermis Test MethodHuman skin modelOECD 405 Acute Eye Irritation/Rabbit	OECD OECD 439- In Vitro Skin Irritation - Reconstructed Human Epidermis Test MethodHuman skin modelSkinOECD 405 Acute Eye Irritation/RabbitEyes

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# SECTION 11: Toxicological information

#### **Conclusion/Summary**

Skin	: fatty acids, C18-unsatd., Irritating to skin. dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	
Eyes	: fatty acids, C18-unsatd., Severely irritating to ey dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	es.
Respiratory	: No additional information.	

# Respiratory

#### **Sensitiser**

Product/ingredient name	Test	Route of exposure	Species	Result
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	OECD 429 Skin Sensitisation: Local Lymph Node Assay	skin	Mouse	Sensitising

#### **Conclusion/Summary**

- Skin
- Respiratory
- : No additional information.
- : No additional information.

#### **Mutagenicity**

Product/ingredient name	Test	Result
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	OECD 471 Bacterial Reverse Mutation Test	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Negative
		Negative
Conclusion/Cummons	. No additional information	· · · · · · · · · · · · · · · · · · ·

**Conclusion/Summary** 

: No additional information.

# **Carcinogenicity**

**Conclusion/Summary** 

: No additional information.

**Reproductive toxicity** 

Product/ingredient name	Test	Species	Result/Result type	Target organs
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	OECD 422 Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	Oral: NOAEL	-
Conclusion/Summary	: No additional information.			

#### Teratogenicity

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

Specific target organ toxicity (single exposure)

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Not available.				
Specific target organ toxicit	<u>y (repeated exposure)</u>			
Not available.				
Aspiration hazard				
Not available.				
Information on the likely routes of exposure	: Not available.			
Potential acute health effect	<u>'S</u>			
Inhalation	: May give off gas, vapor or d system. Exposure to decon effects may be delayed follo	nposition products ma		
Ingestion	: May cause burns to mouth,	throat and stomach.		
Skin contact	: Causes skin irritation. May	cause an allergic skin	reaction.	
Eye contact	: Causes serious eye damage			
	ysical, chemical and toxicolo	gical characteristics		
Inhalation	: No specific data.			
Ingestion	: Adverse symptoms may inc stomach pains	-		
Skin contact	: Adverse symptoms may inc pain or irritation redness blistering may occur	redness		
Eye contact	<ul> <li>Adverse symptoms may include the following:</li> <li>pain</li> <li>watering</li> <li>redness</li> </ul>			
Delayed and immediate effe	cts and also chronic effects f	rom short and long t	<u>erm exposure</u>	
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects Long term exposure	: Not available.			
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health effe	ects			
Product/ingredient name	Test	Result type	Result	Target organs
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	OECD 422 Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test	NOAEL -	1000 mg/ kg/d	-
Conclusion/Summary	: No additional information.		I	-
General	: Once sensitized, a severe a to very low levels.	llergic reaction may o	ccur when subs	equently exposed
Carcinogenicity Mutagenicity	<ul><li>No known significant effects</li><li>No known significant effects</li></ul>			

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Teratogenicity	: No known significan	t 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	
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	OECD 201 Alga, Growth Inhibition Test	Acute	EC50	72 hours Static	Algae	4.34	mg/l
	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute	EC50	3 hours Static	Bacteria	384	mg/l
		Acute	EC50	48 hours Static	Daphnia	7.07	mg/l
	OECD 203 Fish, Acute Toxicity Test	Acute	LC50	96 hours	Fish	7.07	mg/l
		Chronic	EC10	72 hours Static	Algae	1.78	mg/l

**Conclusion/Summary** 

: No additional information.

## 12.2 Persistence and degradability

Product/ingredient name	Test	Period	Result
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	OECD 301B Ready Biodegradability - CO2 Evolution Test	74 days	0 to 70 %

Conclusion/Summary

PBT

: No additional information.

## **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	10.34	-	high

# 12.4 Mobility in soil Soil/water partition coefficient (Koc) Mobility : Not available.

## 12.5 Results of PBT and vPvB assessment

:	PBT: No.	
	P: No. B: No.	T: No.

<b>Conforms to Regulation</b>	on (EC) No. 1907/2006 (REACH	l), Annex II - United Kingdon	n (UK)	
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vPvB	: vPvB: No. vP: No. vB: No.			

#### **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	<ul> <li>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.</li> </ul>
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. (Dimer fatty acid (c18) polyamidoamine resin)	
IMDG	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Dimer fatty acid (c18) polyamidoamine resin). Marine pollutant	
IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Dimer fatty acid (c18) polyamidoamine resin)	

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	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.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Hazard identification number 90 Special provisions 274 335 601 Tunnel code E
IMDG	9		Yes.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	<u>Emergency</u> <u>schedules (EmS)</u> F-A S-F
IATA	9 ¥2		Yes.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	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 ofMARPOL 73/78 and the IBCCode

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SECTION 15: Regula	tory informatior	 ]	
15.1 Safety, health and envir	onmental regulations/	egislation specific for the s	ubstance or mixture
EU Regulation (EC) No. 190	7/2006 (REACH)		
	d and is registering all o	on EC 1907/2006. f the substances that it manuf Title II of the REACH Regulati	
Annex XIV - List of substan	ces subject to authoris	sation	
Annex XIV			
None of the components are	e listed.		
Substances of very high c	<u>oncern</u>		
None of the components are	e listed.		
Annex XVII - Restrictions	: Not applicable.		
on the manufacture, placing on the market			
and use of certain			
dangerous substances,			
mixtures and articles			
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			
References	the recognised abb		r Regulation 6 of CHIP (CHIP is izard Information and Packaging d 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		

Chemicals

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Chemical Weapons Convention List Schedule II 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 pre	viously 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>		
Procedure used to derive th		rding to Regulation (EC) No. 12	272/2008 [CLP/GHS]
Classi	ification	J	ustification
Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411		Expert judgment Expert judgment Expert judgment Expert judgment	
Full text of abbreviated H statements	H317 May cau H318 Causes	<ul><li>H317 May cause an allergic skin reaction.</li><li>H318 Causes serious eye damage.</li></ul>	
Full text of classifications [CLP/GHS]	: Aquatic Chronic 2 Eye Dam. 1, H31 Skin Irrit. 2, H315 Skin Sens. 1A, H	5 SKIN CORROSION/IRF	E/ EYE IRRITATION - Category 1
Full text of abbreviated R phrases	<ul> <li>R41- Risk of serious damage to eyes.</li> <li>R38- Irritating to skin.</li> <li>R43- May cause sensitisation by skin contact.</li> </ul>		
Full text of classifications [DSD/DPD]	: Xi - Irritant		
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Notice to reader			

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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

<b>Conforms to Regulatio</b>	n (EC) No. 1907/2006 (REACH	H), Annex II - United Kingdon	n (UK)
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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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