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

1.1 Product identifier

Trade name : ARALDITE® 2014-1 GB HARDENER

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

Use of the : Hardener

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

: Huntsman Advanced Materials (Europe)BVBA Company

Address Everslaan 45 3078 Everberg

Belgium Telephone

: +41 61 299 20 41 : +41 61 299 20 40 Telefax

E-mail address of person

responsible for the SDS

: Global_Product_EHS_AdMat@huntsman.com

1.4 Emergency telephone number

Emergency telephone number : EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

ASIA: +65 6336-6011 China: +86 20 39377888 +86 532 83889090

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Reproductive toxicity, Category 1B H360F: May damage fertility.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :









Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H360F May damage fertility.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.
P261 Avoid breathing dust/ fume/ gas/ mist/

vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/doctor.

P308 + P313 IF exposed or concerned: Get medical

advice/ attention.

Hazardous components which must be listed on the label:

fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine

Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

4,4'-Isopropylidenediphenol









Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H360F May damage fertility.

H411 Toxic to aquatic life with long lasting effects.

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POISON CENTER/doctor.

P308 + P313 IF exposed or concerned: Get medical

advice/ attention.

Hazardous components which must be listed on the label:

fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine

Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

2,2'-Iminodi(ethylamine)

4,4'-Isopropylidenediphenol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concent ration (% w/w)
Fatty acids, C18-unsatd.,	68154-62-1	Skin Irrit. 2; H315	>= 30 -
dimers, polymers with oleic acid	-	Eye Dam. 1; H318	< 50
and triethylenetetramine (UVCB)	01-2119972322-40	Skin Sens. 1A; H317	
		Aquatic Chronic 2;	
		H411	
Fatty acids, C18-unsatd.,	68154-62-1	Skin Irrit. 2; H315	>= 2,5 -
dimers, polymers with oleic acid	-	Eye Irrit. 2; H319	< 10
and triethylenetetramine	-	Skin Sens. 1; H317	
		Aquatic Chronic 3;	
		H412	
N'-(3-aminopropyl)-N,N-	10563-29-8	Acute Tox. 4; H302	>= 5 - <
dimethylpropane-1,3-diamine	234-148-4	Skin Corr. 1A; H314	9,65

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	01-2119970376-29	Skin Sens. 1B; H317	
2,2'-Iminodi(ethylamine)	111-40-0	Acute Tox. 4; H302	>= 3 - <
	203-865-4	Acute Tox. 2; H330	5
	01-2119473793-27	Acute Tox. 4; H312	
		Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	
		STOT SE 3; H335	
4,4'-Isopropylidenediphenol	80-05-7	Eye Dam. 1; H318	>= 1 - <
	201-245-8	Skin Sens. 1; H317	2,5
	01-2119457856-23	Repr. 1B; H360F	
		STOT SE 3; H335	
		Aquatic Chronic 2;	
		H411	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

None known.

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4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No data is available on the product itself.

5.3 Advice for firefighters

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Specific extinguishing

methods

: No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralise with acid.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

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6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the

technological safety standards.

Recommended storage

temperature

: 2 - 40 °C

Further information on

storage stability

: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
barium sulfate	7727-43-7	TWA (inhalable	10 mg/m3	GB EH40

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		dust)			
Further information	For the purpo	ses of these limits, re	espirable dust and inhalable	dust are those	
	fractions of airborne dust which will be collected when sampling is undertaken				
			escribed in MDHS14/3 Gen		
			of respirable and inhalable		
			hazardous to health include		
			ion in air equal to or greate		
			mg.m-3 8-hour TWA of res		
			ubject to COSHH if people		
			ave been assigned specific		
			th the appropriate limit., Mo		
			ange of sizes. The behaviou		
			after entry into the human re		
	and the body	response that it elicit	ts, depend on the nature an	d size of the	
	particle. HSE	distinguishes two siz	e fractions for limit-setting	ourposes terme	
	'inhalable' and	d 'respirable'., Inhala	ble dust approximates to the	e fraction of	
	airborne mate	rial that enters the n	ose and mouth during brea	thing and is	
			n the respiratory tract. Resp		
			enetrates to the gas exchai		
			atory material are given in N		
		Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term			
			ee times the long-term exp		
	used	i is listed, a ligare trii	ce unics the long-term exp	osare srioula be	
	useu	TMA (Pagnirable	4 mg/m2	GB EH40	
		TWA (Respirable	4 mg/m3	GB ER40	
F	F 41	dust)	and the late of th		
Further information			espirable dust and inhalable		
	fractions of airborne dust which will be collected when sampling is undertaken				
	in accordance with the methods described in MDHS14/3 General methods for				
	sampling and gravimetric analysis of respirable and inhalable dust, The				
	COSHH definition of a substance hazardous to health includes dust of any				
			ion in air equal to or greate		
			mg.m-3 8-hour TWA of res		
	This means that any dust will be subject to COSHH if people are exposed				
	above these levels. Some dusts have been assigned specific WELs and				
	exposure to these must comply with the appropriate limit., Most industrial				
	dusts contain particles of a wide range of sizes. The behaviour, deposition				
	and fate of any particular particle after entry into the human respiratory system				
	and the body response that it elicits, depend on the nature and size of the				
	particle. HSE distinguishes two size fractions for limit-setting purposes termed				
	'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of				
	airborne material that enters the nose and mouth during breathing and is				
		therefore available for deposition in the respiratory tract. Respirable dust			
	approximates to the fraction that penetrates to the gas exchange region of the				
	lung. Fuller definitions and explanatory material are given in MDHS14/3.,				
	Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term				
		is listed, a figure thr	ee times the long-term exp	osure should be	
	used	T			
2,2'-	111-40-0	TWA	1 ppm	GB EH40	
Iminodi(ethylamine			4,3 mg/m3		
١					
<u>/</u>					
Further information	Can be absor	bed through skin. Th	e assigned substances are	those for which	

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	Where no specific short-term exposure limit is listed, a figure three times the			
	long-term exposure should be used			
4,4'-	80-05-7	TWA (inhalable	10 mg/m3	GB EH40
Isopropylidenediph		dust) `		
enol		,		
Further information	Where no spe	ecific short-term expo	osure limit is listed, a figure th	ree times the
	long-term exp	osure should be use	ed	
		TWA (inhalable	10 mg/m3	2009/161/EU
		dust)	_	
Further information			e 2009/161/EU, the reference	e to bisphenol
	A is deleted w	vith effect from 21 Au	ıgust 2018.	
		TWA ((inhalable	2 mg/m3	2017/164/EU
		fraction))		
Further information	Indicative			
Diethylenetriamine	111-40-0	TWA	1 ppm	GB EH40
			4,3 mg/m3	
Further information			ie assigned substances are t	
			sorption will lead to systemic	
			osure limit is listed, a figure th	rree times the
		osure should be use		
4,4'-	80-05-7	TWA (inhalable	10 mg/m3	GB EH40
isopropylidenediph		dust)		
enol				
Further information			osure limit is listed, a figure th	rree times the
	long-term exp	osure should be use		
		TWA (inhalable	10 mg/m3	2009/161/EU
		dust)		
Further information			re 2009/161/EU, the reference	e to bisphenol
	A is deleted w	vith effect from 21 Au	<u> </u>	
		TWA ((inhalable	2 mg/m3	2017/164/EU
		fraction))		
Further information	Indicative			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Diethylenetriamine	Workers	Inhalation	Systemic effects, Short-term exposure	92,1 mg/m3
	Workers	Inhalation	Local effects, Short- term exposure	2,6 mg/m3
	Workers	Dermal	Systemic effects, Long-term exposure	11,4 mg/kg bw/day
	Workers	Inhalation	Systemic effects, Long-term exposure	15,4 mg/m3
	Workers	Dermal	Local effects, Long- term exposure	1,1 mg/cm2
	Workers	Inhalation	Local effects, Long- term exposure	0,87 mg/m3
	Consumers	Oral	Local effects, Short- term exposure	4,88 mg/kg bw/day

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	Consumers	Inhalation	Systemic effects, Short-term exposure	27,5 mg/m3
	Consumers	Dermal	Systemic effects, Long-term exposure	4,88 mg/kg bw/day
	Consumers	Inhalation	Systemic effects, Long-term exposure	4,6 mg/m3
triethylenetetramine	Workers	Inhalation	Systemic effects, Short-term exposure	5380 mg/m3
	Workers	Dermal	Systemic effects, Long-term exposure	0,57 mg/kg bw/day
	Workers	Inhalation	Systemic effects, Long-term exposure	1 mg/m3
	Workers	Dermal	Local effects, Long- term exposure	0,028 mg/m3
	Consumers	Dermal	Systemic effects, Short-term exposure	8 mg/kg bw/day
	Consumers	Inhalation	Systemic effects, Short-term exposure	1600 mg/m3
	Consumers	Oral	Systemic effects, Short-term exposure	20 mg/kg bw/day
	Consumers	Dermal	Local effects, Short- term exposure	1 mg/cm2
	Consumers	Dermal	Local effects, Short- term exposure	0,25 mg/kg bw/day
	Consumers	Inhalation	Systemic effects, Long-term exposure	0,29 mg/m3
	Consumers	Oral	Systemic effects, Long-term exposure	0,41 mg/kg bw/day
	Consumers	Dermal	Local effects, Long- term exposure	0,43 mg/cm2
2,2'- Iminodi(ethylamine)	Workers	Inhalation	Systemic effects, Short-term exposure	92,1 mg/m3
	Workers	Inhalation	Local effects, Short- term exposure	2,6 mg/m3
	Workers	Dermal	Systemic effects, Long-term exposure	11,4 mg/kg bw/day
	Workers	Inhalation	Systemic effects, Long-term exposure	15,4 mg/m3
	Workers	Dermal	Local effects, Long- term exposure	1,1 mg/cm2
	Workers	Inhalation	Local effects, Long- term exposure	0,87 mg/m3
	Consumers	Oral	Local effects, Short- term exposure	4,88 mg/kg bw/day
	Consumers	Inhalation	Systemic effects, Short-term exposure	27,5 mg/m3
	Consumers	Dermal	Systemic effects, Long-term exposure	4,88 mg/kg

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	1			bw/day
	Consumers	Inhalation	Systemic effects, Long-term exposure	4,6 mg/m3
barium sulfate	Workers	Inhalation	Long-term systemic effects	10 mg/m3
	Workers	Inhalation	Long-term local effects	10 mg/m3
	Consumer use	Inhalation	Long-term systemic effects	10 mg/m3
	Consumer use	Oral	Long-term systemic effects	13000 mg/kg
N'-(3-aminopropyl)- N,N-dimethylpropane- 1,3-diamine	Workers	Inhalation	Long-term systemic effects	3,7 mg/m3
	Workers	Inhalation	Acute systemic effects	7,5 mg/m3
	Workers	Inhalation	Long-term local effects	3,7 mg/m3
	Workers	Inhalation	Acute local effects	7,5 mg/m3
	Workers	Dermal	Long-term systemic effects	0,67 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0,65 mg/m3
	Consumers	Inhalation	Long-term local effects	0,65 mg/m3
	Consumers	Oral	Long-term systemic effects	0,2 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

0.1.1		F	M. L.
Substance name		Environmental Compartment	Value
Diethylenetriamine		Fresh water	0,56 mg/l
Remarks: Assessme		ent Factors	
		Marine water	0,056 mg/l
	Assessme	nt Factors	
		Fresh water sediment	1072 mg/kg
Equilibriur		n method	
		Marine sediment	107,2 mg/kg
	Equilibriun	n method	
		Soil	214 mg/kg
	Equilibriun	n method	
		Freshwater - intermittent	0,32 mg/l
Assessme		nt Factors	•
triethylenetetramine		Fresh water	190 µg/l

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	Assessme	ent Factors		
		Fresh water sediment	95,9 mg/kg	
	Equilibriur	n method	1	
		Marine water	38 μg/l	
	Assessme	ent Factors		
		Freshwater - intermittent	200 μg/l	
	Assessme	ent Factors		
		Marine sediment	19,2 mg/kg	
	Equilibriur	n method	1	
	<u>I</u>	Soil	19,1 mg/kg	
	Equilibriur	n method		
	1	Sewage treatment plant	4,25 mg/l	
	Assessme	ent Factors	I	
	l	Secondary Poisoning	0,18 mg/kg	
	Assessme	ent Factors		
2,2'-Iminodi(ethylamine)		Fresh water	0,56 mg/l	
	Assessment Factors			
		Marine water	0,056 mg/l	
	Assessme	ent Factors		
		Fresh water sediment	1072 mg/kg	
	Equilibriur	n method	<u> </u>	
		Marine sediment	107,2 mg/kg	
	Equilibriur	m method		
		Soil	214 mg/kg	
	Equilibriur	m method		
		Freshwater - intermittent	0,32 mg/l	
	Assessme	ent Factors	<u> </u>	
barium sulfate	l	Fresh water	115 µg/l	
		Sewage treatment plant	62,2 mg/l	
	Assessme	ent Factors	I	
	ı	Fresh water sediment	600,4 mg/kg	
	Assessme	ent Factors	I	
	ı	Soil	207,7 mg/kg	
	Assessme	ent Factors		

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N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	Fresh water	9,2 µg/l
Assess	sment Factors	,
	Marine water	0,92 µg/l
Assess	sment Factors	1
	Freshwater - intermittent	92 µg/l
Assess	ment Factors	
	Sewage treatment plant	18,1 mg/l
Assess	ment Factors	
	Fresh water sediment	0,0336 mg/kg
Equilib	rium method	1
	Marine sediment	0,00336 mg/kg
Equilib	rium method	1
	Soil	0,00132 mg/kg
Equilib	rium method	-
Siloxanes and Silicones, di-Me, reaction products with silica	Fresh water sediment	> 100 mg/kg
Assess	sment Factors	
	Soil	23 mg/kg
Assess	sment Factors	1

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : butyl-rubber

Material : Ethyl Vinyl Alcohol Laminate (EVAL)

Break through time : > 8 h

Material : Nitrile rubber Break through time : 10 - 480 min

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions

(mechanical strain, duration of contact).

Skin and body protection : Impervious clothing

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Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Recommended Filter type:

Combined particulates and organic vapour type

Filter type : Filter type A-P

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : paste

Colour : grey

Odour : slight

Odour Threshold : No data is available on the product itself.

pH : 11 (20 °C)

Concentration: 500 g/l Method: Measured

Melting point/freezing point : No data available

Boiling point : > 200 °C

Flash point : 120 °C

Method: Pensky-Martens closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Burning rate : No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : < 0,15 hPa (20 °C)

Relative vapour density : No data is available on the product itself.

Relative density : No data is available on the product itself.

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Density : 1,6 g/cm3 (25 °C)

Solubility(ies)

Water solubility : partly soluble (20 °C)

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : > 200 °C

Viscosity

Viscosity, dynamic : 1 178 000 mPa,s (25 °C)

Method: Other guidelines

thixotropic

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

9.2 Other information

Molecular weight : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Nitrogen oxides (NOx)

Carbon oxides

Burning produces noxious and toxic fumes.

according to Regulation (EC) No. 1907/2006



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : > 2 000 mg/kg

Method: Calculation method

Acute inhalation toxicity -

Product

: Acute toxicity estimate : > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity -

Product

: Acute toxicity estimate : > 2 000 mg/kg

Method: Calculation method

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Product:

Species: Rabbit Assessment: Irritant

Method: OECD Test Guideline 404

Result: Irritating to skin.

Serious eye damage/eye irritation

Product:

Species: Rabbit

Assessment: Corrosive

Method: OECD Test Guideline 405 Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

No data available Assessment:

Germ cell mutagenicity

Components:

fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine:

: Metabolic activation: with and without metabolic activation Genotoxicity in vitro

Method: OECD Test Guideline 471

Result: negative

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: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine:

Genotoxicity in vitro : Metabolic a

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

4,4'-Isopropylidenediphenol:

Genotoxicity in vitro

: Metabolic activation: with and without metabolic activation

Result: negative

Components:

2,2'-Iminodi(ethylamine):

Genotoxicity in vivo

: Cell type: Somatic

Application Route: Oral Dose: 85 - 850 mg/kg

Method: OECD Test Guideline 474

Result: negative

Application Route: Oral

Result: negative

4,4'-Isopropylidenediphenol:

Genotoxicity in vivo

: Method: OECD Test Guideline 474

Result: negative

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Carcinogenicity

Components:

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine:

Species: Mouse, (male)
Application Route: Dermal
Exposure time: 20 month(s)
Frequency of Treatment: 3 daily

Result: negative

2,2'-Iminodi(ethylamine): Species: Mouse, (male) Application Route: Dermal

Dose: 56.3 mg/kg

Frequency of Treatment: 3 daily

Result: negative

4,4'-Isopropylidenediphenol: Species: Rat, (male and female)

Application Route: Oral Exposure time: 103 weeks Frequency of Treatment: 7 daily

Result: negative

Carcinogenicity - : No data available

Assessment

Reproductive toxicity

Components:

fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 422

Result: Animal testing did not show any effects on fertility.

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine:

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 422

Result: Animal testing did not show any effects on fertility.

2,2'-Iminodi(ethylamine):

Species: Rat, male and female

Application Route: Oral

General Toxicity - Parent: No observed adverse effect level:

30 mg/kg wet weight

Method: OECD Test Guideline 421

Result: positive

4,4'-Isopropylidenediphenol:

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 416

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Result: Embryotoxic effects and adverse effects on the

offspring were detected.

Components:

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine:

Effects on foetal : Species: Rat, male and female

development Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

15 mg/kg body weight

Developmental Toxicity: No observed adverse effect level: 15

mg/kg body weight

Embryo-foetal toxicity: No observed adverse effect level: 15

mg/kg body weight

Method: OECD Test Guideline 422

Result: No effects on fertility and early embryonic

development were detected.

2,2'-Iminodi(ethylamine):

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

100 mg/kg body weight

Method: OECD Test Guideline 421

Result: No adverse effects

4,4'-Isopropylidenediphenol:

Species: Rat, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

< 160 mg/kg body weight

Method: OECD Test Guideline 416 Result: No teratogenic effects

Components:

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine:

Reproductive toxicity - : No evidence of adverse effects on sexual function and fertility,

Assessment or on development, based on animal experiments.

4,4'-Isopropylidenediphenol:

Reproductive toxicity - : Clear evidence of adverse effects on sexual function and

Assessment fertility, based on animal experiments.

STOT - single exposure

Components:

2,2'-Iminodi(ethylamine):

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

4,4'-Isopropylidenediphenol:

Assessment: The substance or mixture is classified as specific target organ toxicant, single

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exposure, category 3 with respiratory tract irritation.

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine:

Species: Rat, male and female

NOAEL: 1000 mg/kg

Application Route: Ingestion

Exposure time: 6 WeeksNumber of exposures: 7 d

Method: Subacute toxicity

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine:

Species: Rat, male and female

NOEC: 550

Application Route: Ingestion Test atmosphere: vapour

Exposure time: 3 WeeksNumber of exposures: 7 d

Method: Subchronic toxicity

Species: Mouse, male NOAEL: >= 56,3

Application Route: Skin contact

Exposure time: 20 hNumber of exposures: 3 d

Method: Chronic toxicity

2,2'-Iminodi(ethylamine):
Species: Rat. male and female

NOEC: 70 - 80

Application Route: Ingestion Test atmosphere: vapour

Exposure time: 360 hNumber of exposures: 7 d

Method: Subchronic toxicity

Species: Rat, male and female

NOAEL: 114

Application Route: Skin contact

Exposure time: 9 600 hNumber of exposures: 6 d

Method: Chronic toxicity

4,4'-Isopropylidenediphenol: Species: Dog, male and female

NOEC: 75 mg/kg, 10 Application Route: Ingestion Test atmosphere: dust/mist

Exposure time: 2 160 hNumber of exposures: 7 d

Method: Subchronic toxicity

Species: Rat, male and female

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LOAEL: 600 mg/kg

Application Route: Ingestion

Exposure time: 672 hNumber of exposures: 7 d

Method: Subchronic toxicity

Repeated dose toxicity -

Assessment

: No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine: Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 7,07 mg/l

Exposure time: 96 h

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Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 5,18 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 2,43 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): 421 mg/l

Exposure time: 3 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine:

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 9,2 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 21 mg/l

Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): 181 mg/l

Exposure time: 16 h Test Type: static test

Test substance: Fresh water Method: DIN 38 412 Part 8

2,2'-Iminodi(ethylamine):

Toxicity to fish : LC50 : 430 mg/l

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Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 32 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Toxicity to algae : EbC50 (Selenastrum capricornutum (green algae)): 1 164

mg/l

Exposure time: 72 h
Test Type: static test
Test substance: Fresh

Test substance: Fresh water Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOEC: 10 mg/l Exposure time: 28 d

Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 210

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 5,6 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.20

Toxicity to soil dwelling

organisms

: EC50: > 1 000 mg/kg Exposure time: 56 d

Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 222

Ecotoxicology Assessment

Acute aquatic toxicity

: This product has no known ecotoxicological effects.

4,4'-Isopropylidenediphenol:

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): 7,5 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 : 3,9 - 10,2 mg/l Exposure time: 48 h

(Ceriodaphnia dubia (Water flea)):

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 2,5 - 3,1

mg/l

Exposure time: 96 h

Toxicity to fish (Chronic

toxicity)

: NOEC: 0,016 mg/l Exposure time: 444 d

Species: Pimephales promelas (fathead minnow)

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Test Type: flow-through test
Test substance: Fresh water
Method: EPA OPPTS 850.1500
Remarks: Toxic to aquatic organisms.

M-Factor (Chronic aquatic

toxicity)

: 1

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 100 % Exposure time: 28 d

Method: ISO

2,2'-Iminodi(ethylamine):

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable.

Biodegradation: 87 % Exposure time: 21 d

Method: OECD Test Guideline 301D

Photodegradation : Test Type: Air

Rate constant: 500000

Degradation (direct photolysis): 50 %

4,4'-Isopropylidenediphenol:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 1 - 2 % Exposure time: 28 d

12.3 Bioaccumulative potential

Components:

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine:

Partition coefficient: n-

octanol/water

: log Pow: 0,5

log Pow: -0,56 (25 °C)

pH: 11,6

Method: OECD Test Guideline 107

2,2'-Iminodi(ethylamine):

Bioaccumulation : Species: Cyprinus carpio (Carp)

Exposure time: 42 d

Bioconcentration factor (BCF): 0,3 - 6,3

Test substance: Fresh water Method: flow-through test

according to Regulation (EC) No. 1907/2006



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Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: -1,58 (20 °C)

pH: 7

12.4 Mobility in soil

Components:

2,2'-Iminodi(ethylamine):

Distribution among

environmental compartments

: Koc: 19111

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

IATA

14.1 UN number : UN 3082

14.2 UN proper shipping

: Environmentally hazardous substance, liquid, n.o.s.

name

(POLYAMIDE RESIN)

(POLYAMIDE RESIN, 4,4'-ISOPROPYLIDENEDIPHENOL)

14.3 Transport hazard

class(es)

: 9

14.4 Packing group : 111

Miscellaneous

Packing instruction (cargo : 964

according to Regulation (EC) No. 1907/2006



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aircraft)

Packing instruction : 964

(passenger aircraft)

IMDG

14.1 UN number : UN 3082

14.2 UN proper shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

(POLYAMIDE RESIN)

name N.O.S.

(POLYAMIDE RESIN, 4,4'-ISOPROPYLIDENEDIPHENOL)

14.3 Transport hazard : 9

class(es)

14.4 Packing group : III Labels : 9

EmS Code : F-A, S-F

14.5 Environmental hazards

Marine pollutant : yes

ADR

14.1 UN number : UN 3082

14.2 UN proper shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

name N.O.S.

(POLYAMIDE RESIN)

(POLYAMIDE RESIN, 4,4'-ISOPROPYLIDENEDIPHENOL)

14.3 Transport hazard : 9

class(es)

14.4 Packing group : III Labels : 9

14.5 Environmental hazards

Environmentally hazardous : yes

RID

14.1 UN number : UN 3082

14.2 UN proper shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

name N.O.S.

(POLYAMIDE RESIN)

(POLYAMIDE RESIN, 4,4'-ISOPROPYLIDENEDIPHENOL)

14.3 Transport hazard

class(es)

: 9

14.4 Packing group : III Labels : 9

14.5 Environmental hazards

Environmentally hazardous : yes

Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

according to Regulation (EC) No. 1907/2006



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REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: 4,4'-isopropylidenediphenol

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed. H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

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H330 : Fatal if inhaled.

H335 : May cause respiratory irritation.

H360F : May damage fertility.

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Chronic aquatic toxicity Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

Repr. : Reproductive toxicity
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

2009/161/EU : Europe, COMMISSION DIRECTIVE 2009/161/EU establishing

a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending

Commission Directive 2000/39/EC

2017/164/EU : Commission Directive (EU) 2017/164 establishing a fourth list

of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2009/161/EU / TWA : Limit Value - eight hours 2017/164/EU / TWA : Limit Value - eight hours

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

Further information

Classification of the mixture: Classification procedure:

Skin Irrit. 2 H315 Based on product data or assessment
Eye Dam. 1 H318 Based on product data or assessment

Skin Sens. 1 H317 Calculation method Repr. 1B H360F Calculation method Aquatic Chronic 2 H411 Calculation method

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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.

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