

Date of Issue: 28-10-2021 Date of Revision: 19-01-2022

Gorilla Super Glue Gel

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Gorilla Super Glue Gel

Synonyms ethyl 2-cyanoacrylate; 1,4-dihydroxybenzene

CAS No. Not applicable. EC No. Not applicable. REACH Registration No. Not known.

Unique Formula Identifier (UFI) F7P4-E9U6-400G-YJPT

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

Identified Use(s) Adhesives. Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification Gorilla Glue Europe Ltd Address of Manufacturer 26 Eaton Avenue

> Matrix Park Buckshaw Village

Chorley

Lancashire

Postal code PR7 7NA Telephone: 01257 241 319 Fax Not known.

E-mail Eucustomercare@gorillaglue.com

Office hours 08:30 - 17:00

Supplier

Company Identification Gorilla Glue Europe Ltd

Address of Supplier 26 Eaton Avenue

> Matrix Park Buckshaw Village

Chorley Lancashire

Postal code PR7 7NA Telephone: 01257 241 319 Fax Not known.

E-mail Eucustomercare@gorillaglue.com

Office hours 08:30 - 17:00

1.4 Emergency telephone number

Emergency Phone No. +44 (0)843 507 1200 Contact Stuart Shotton

National response centre

NHS Direct Address



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Emergency Phone No. +44 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GB CLP Regulation, UK SI 2019/720 Skin Irrit. 2 :Causes skin irritation.

and UK SI 2020/1567 Eye Irrit. 2 :Causes serious eye irritation.

STOT SE 3: May cause respiratory irritation.

2.2 Label elements

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567

Product Name Gorilla Super Glue Gel

Hazard Pictogram(s)



arroor

Signal Word(s) Warning

Hazard Statement(s) H315: Causes skin irritation.

H319: Causes serious eye irritation.H335: May cause respiratory irritation.

EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the

reach of children.

Precautionary Statement(s) P101: If medical advice is needed, have product container or label at hand.

P261: Avoid breathing vapours.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention.

 $P501: Dispose \ of \ contents \ in \ accordance \ with \ local, \ state \ or \ national \ legislation.$

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



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3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS	CAS No.	EC No. / Registration	%W/W	Hazard Statement(s)	Hazard
INGREDIENT(S)		number(s)			Pictogram(s)
ethyl 2-cyanoacrylate	7085-85-0	230-391-5	85-95	Skin Irrit. 2 H315	GHS07
				Eye Irrit. 2 H319	
				STOT SE 3 H335	
1,4-dihydroxybenzene	123-31-9	204-617-8	< 0.1	Acute Tox. 4 H302	GHS05
				Skin Sens. 1 H317	GHS08
				Eye Dam. 1 H318	GHS07
				Muta. 2 H341	GHS09
				Carc. 2 H351	
				Aquatic Acute 1 H400	

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTRE/doctor if you feel unwell.

Skin Contact Take off contaminated clothing and wash it before reuse. If skin irritation occurs:

Get medical advice/attention. Specific treatment (see Medical Advice on this

label).

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Ingestion Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

May cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). Call a POISON

CENTRE/doctor if you feel unwell. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media



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Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None.

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Ensure full personal protection (including

respiratory protection) during removal of spillages.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the $\,$

appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to

a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing

vapours. Use only outdoors or in a well-ventilated area.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Storage temperature Am

Storage life Stable under normal conditions.

Incompatible materials None known.

7.3 Specific end use(s)

Adhesives.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposu	ire Limits					
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note



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Ethyl cyanoacrylate	7085-85-0		1.5	
Hydroquinone	123-31-9	0.5		

Region Source

UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020) United Kingdom

Remark

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation. A washing facility/water for eye and skin cleaning

purposes should be present.

8.2.2. Personal protection equipment

Eye Protection Wear eye protection with side protection (EN166).

Skin protection Wear protective clothing and gloves: Impervious gloves (EN 374).

Respiratory protection Normally no personal respiratory protection is necessary.



Thermal hazards None known.

Environmental Exposure Controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Liauid.

> Colour: Clear. Characteristic.

Odour Odour threshold Not known. рΗ Not known. Melting point/freezing point Not known. Initial boiling point and boiling range Not known. Flash Point >81° C Evaporation rate Not known. Flammability (solid, gas) Not known. Not known.

Upper/lower flammability or explosive

limits

Vapour pressure Not known.



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Vapour density Not known.

Density (g/ml) 1.1g/cm³ @ 20° C

Relative density Not known.

Solubility(ies) Solubility (Water): Immiscible.

Solubility (Other): Not known.

Partition coefficient: n-octanol/water Not known.

Auto-ignition temperature Not known.

Decomposition Temperature (° C) Not known.

Viscosity Not known.

Explosive properties Not explosive.

Oxidising properties Not oxidising.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion Calculation method : Not classified.

Acute toxicity - Skin Contact Calculation method : Not classified.

Acute toxicity - Inhalation Calculation method : Not classified.

Skin corrosion/irritation Calculation method : Causes skin irritation.

Serious eye damage/irritation Calculation method : Causes serious eye irritation.

Skin sensitization data Calculation method : Not classified.

Contains isocyanates. May produce an allergic reaction. No data.

Respiratory sensitization data

Germ cell mutagenicity

Calculation method : Not classified.

Carcinogenicity

Calculation method : Not classified.

Calculation method : Not classified.

Reproductive toxicity

Calculation method : Not classified.



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Lactation Not classified

STOT - single exposure Calculation method : May cause respiratory irritation.

STOT - repeated exposure Calculation method : Not classified.

Aspiration hazard Calculation method : Not classified.

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates Low toxicity to invertebrates.

Toxicity - Fish Low toxicity to fish.

Toxicity - Algae Low toxicity to algae.

Toxicity - Sediment Compartment Not classified.

Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

 $Immiscible \ with \ water. \ The \ product \ is \ predicted \ to \ have \ low \ mobility \ in \ soil.$

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose at suitable refuse

site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number

Not applicable



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14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

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

Not known

SECTION 15: REGULATORY INFORMATION

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

United Kingdom Regulations - Authorisations and/or Restrictions On Use

UK REACH Candidate List of Not listed

Substances of Very High Concern for

Authorisation

UK REACH Authorisation List (Annex Not listed

XIV) list of substances subject to

authorisation

UK REACH Restrictions List (Annex ethyl 2-cyanoacrylate (7085-85-0), 1,4-dihydroxybenzene (123-31-9)

XIV) Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

The Persistent Organic Pollutants Not listed

Regulations 2007 (SI 2007/3106) as

amended

The Ozone-Depleting Substances and Not listed

Fluorinated Greenhouse Gases

(Amendment etc.) (EU Exit) Regulations

2019 (SI 2019/583)

The Prior Informed Consent (PIC) Not listed

Regulations concerning the export and

import of hazardous chemicals

SI2008/2108 as amended

European Regulations - Authorisations and/or Restrictions On Use Community Rolling Action Plan Hydroquinone (123-31-9)

(CoRAP)

15.2 Chemical Safety Assessment



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A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)



GHS05: GHS: Corrosion

GHS08: GHS: Health hazard GHS09: GHS: Environment

Hazard classification

Acute Tox. 4: Acute toxicity, Category 4

Skin Irrit. 2: Skin corrosion/irritation, Category 2

Skin Sens. 1: Skin sensitization, Category 1

Eye Dam. 1 : Serious eye damage/irritation, Category 1 $\,$

Eye Irrit. 2 : Serious eye damage/irritation, Category 2

STOT SE 3 : Specific target organ toxicity — single exposure, Category 3

Muta. 2: Germ cell mutagenicity, Category 2

Carc. 2: Carcinogenicity, Category 2

Aquatic Acute 1: Hazardous to the aquatic environment, Acute, Category 1

Hazard Statement(s)

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

 ${\sf H341: Suspected\ of\ causing\ genetic\ defects.}$

H351: Suspected of causing cancer.

H400: Very toxic to aquatic life.

EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the

reach of children.



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Precautionary Statement(s)

Acronyms

P101: If medical advice is needed, have product container or label at hand.

P261: Avoid breathing vapours.

P264: Wash hands and exposed skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

 ${\tt P304+P340: IF\ INHALED:\ Remove\ person\ to\ fresh\ air\ and\ keep\ comfortable\ for}$

breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTRE/doctor if you feel unwell.

P321: Specific treatment (see Medical Advice on this label).

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

LTEL: Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS Disclaimers GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

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death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

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

1.1 Product identifier

Trade name : ARALDITE® STANDARD ULTRA RESIN

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

Use of the : Epoxy constituents

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : HUNTSMAN ADVANCED MATERIALS (UK) LIMITED

Address : Ickleton Road, Duxford, Cambridgeshire

CB22 4XQ United Kingdom

Telephone : +41 61 299 20 41

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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

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

Long-term (chronic) aquatic hazard,

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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms





Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product

container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

Prevention:

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved

facility in accordance with local, regional, national

and international regulations.

Hazardous components which must be listed on the label:

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-

[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

vlmethoxy)benzyl]phenoxy}methyl)oxirane

bisphenol A - epoxy resins, number average MW >700 - <1100

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.	Classification	Concent

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	EC-No.		ration			
	Index-No. Registration number		(% w/w)			
bis-[4-(2,3- epoxipropoxi)phenyl]propane	1675-54-3 216-823-5 603-073-00-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 specific concentration limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	>= 70 - < 90			
Reaction mass of 2,2'- [methylenebis(2,1- phenyleneoxymethylene)]bis(oxir ane) and 2,2'-[methylenebis(4,1- phenyleneoxymethylene)]bis(oxir ane) and 2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}meth yl)oxirane	-	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Chronic 2; H411	>= 2.5 - < 10			
bisphenol A - epoxy resins, number average MW >700 - <1100	25068-38-6 Polymer	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 10			
	Substances with a workplace exposure limit :					
Silica, amorphous, fumed, cryst free	-		>= 1 - < 10			

For explanation of abbreviations see section 16.

Both 25068-38-6 and 1675-54-3 can be used to describe the epoxy resin which is produced through the reaction of bisphenol A and epichlorohydrin

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

If inhaled : If inhaled, remove to fresh air.

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Get medical attention if symptoms occur.

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 : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Exercise caution when using a high volume water jet as it may

scatter and spread fire

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

Carbon oxides
Phenolics

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Specific extinguishing

methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

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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.

Refer to protective measures listed in sections 7 and 8.

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

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation

and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this

product.

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.

Dispose of rinse water in accordance with local and national

regulations.

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.

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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. Keep in properly

labelled containers.

Advice on common storage : For incompatible materials please refer to Section 10 of this

SDS

Recommended storage

temperature

: 2 - 40 °C

Further information on

storage stability

: Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Silica, amorphous, fumed, crystfree	112945-52- 5	TWA (inhalable dust)	6 mg/m3 (Silica)	GB EH40
		TWA (Respirable dust)	2.4 mg/m3 (Silica)	GB EH40

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health effects	Value
bis-[4-(2,3- epoxipropoxi)phenyl]p ropane	Workers	Inhalation	Long-term systemic effects	4.93 mg/m3
	Workers	Dermal	Long-term systemic effects	0.75 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.87 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.0893 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.5 mg/kg bw/day
bisphenol A - epoxy resins, number average MW >700 - <1100	Workers	Dermal	Systemic effects	
	Workers	Inhalation	Systemic effects	12.25 mg/m3
	Workers	Dermal	Systemic effects	

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	Workers	Inhalation	Systemic effects	12.25 mg/m3
	Consumers	Dermal	Systemic effects	12.23 1119/1113
	Consumers	Oral	Systemic effects	
	Consumers	Dermal	Systemic effects	
			Systemic effects	
h in (O a thuille a)	Consumers	Oral		47.0 / 0
bis(2-ethylhexyl) adipate	Workers	Inhalation	Long-term systemic effects	17.8 mg/m3
	Workers	Dermal	Long-term systemic effects	25.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4.4 mg/m3
	Consumers	Dermal	Long-term systemic effects	13 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.7 mg/kg bw/day
Reaction mass of 2,2'- [methylenebis(2,1- phenyleneoxymethyle ne)]bis(oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethyle ne)]bis(oxirane) and 2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phe noxy}methyl)oxirane	Workers	Dermal	Acute local effects	0.0083 mg/cm2
•	Workers	Dermal	Long-term systemic effects	104.15 mg/kg
	Workers	Inhalation	Long-term systemic effects	29.39 mg/m3
	Consumers	Dermal	Long-term systemic effects	62.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8.7 mg/m3
	Consumers	Oral	Long-term systemic effects	6.25 mg/kg bw/day
Silica, amorphous, fumed, crystfree	Workers	Inhalation	Long-term systemic effects	4 mg/m3
reaction product: bisphenol a- (epichlorhydrin); epoxy resin (number average molecular weight > 1100)	Workers	Dermal	Systemic effects, Short-term exposure	8.33 mg/kg bw/day
	Workers	Inhalation	Systemic effects, Short-term exposure	12.25 mg/m3
	Workers	Dermal	Systemic effects, Long-term exposure	8.33 mg/kg bw/day
	Workers	Inhalation	Systemic effects, Long-term exposure	12.25 mg/m3
	Consumers	Dermal	Systemic effects, Short-term exposure	3.571 mg/kg bw/day
	Consumers	Oral	Systemic effects,	0.75 mg/kg

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		Short-term exposure	bw/day
Consumers	Dermal	Systemic effects,	3.571 mg/kg
		Long-term exposure	bw/day
Consumers	Oral	Systemic effects,	0.75 mg/kg
		Long-term exposure	bw/day

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value		
25068-38-6	Fresh water	0.006 mg/l		
	Remarks: Assessment Factors			
	Marine water	0.0006 mg/l		
	Remarks: Assessment Factors			
	Freshwater - intermittent	0.018 mg/l		
	Remarks: Assessment Factors			
	Fresh water sediment	0.996 mg/kg		
	Remarks:Equilibrium method			
	Marine sediment	0.0996 mg/kg		
	Remarks:Equilibrium method			
	Soil	0.196 mg/kg		
	Remarks:Equilibrium method			
	Sewage treatment plant	10 mg/l		
	Remarks: Assessment Factors			
	Secondary Poisoning	11 mg/kg		

8.2 Exposure controls

Personal protective equipment

Eye/face 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

Break through time : > 8 h

Material : Solvent-resistant gloves (butyl-rubber)

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

Material : Neoprene gloves

Remarks : 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. The suitability for a specific workplace should be

discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing

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

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

Equipment should conform to EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : light cream

Odour : slight

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

Melting point/freezing point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

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

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Flash point : 210 °C

Method: Pensky-Martens closed cup

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

Decomposition temperature : No data is available on the product itself.

pH : 6

Concentration: 500 g/l

Viscosity : No data is available on the product itself.

Solubility(ies)

Water solubility : practically insoluble

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.

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Vapour pressure : 0.0001 kPa

Density : 1.15 g/cm3 (25 °C)

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

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

Particle characteristics : No data is available on the product itself.

9.2 Other information

No data is available on the product itself.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified due to lack of data.

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral

toxicity

Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

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Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-

[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl]phenoxy}methyl)oxirane:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

bisphenol A - epoxy resins, number average MW >700 - <1100:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral

toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Silica, amorphous, fumed, cryst.-free:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 58.8 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Species : Rabbit Exposure time : 4 h

Assessment : Irritating to skin.

Method : OECD Test Guideline 404

Result : Irritating to skin.

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Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl]phenoxy}methyl)oxirane:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Irritating to skin.

bisphenol A - epoxy resins, number average MW >700 - <1100:

Method : OECD Test Guideline 404

Result : Skin irritation

Silica, amorphous, fumed, cryst.-free:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Species : Rabbit

Assessment : Irritating to eyes.

Method : OECD Test Guideline 405

Result : Irritating to eyes.

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-

[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl]phenoxy}methyl)oxirane:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

bisphenol A - epoxy resins, number average MW >700 - <1100:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Eye irritation

Silica, amorphous, fumed, cryst.-free:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

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Respiratory sensitisation

Not classified due to lack of data.

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Test Type : Local lymph node assay (LLNA)

Exposure routes : Skin Species : Mouse

Method : OECD Test Guideline 429

Result : The product is a skin sensitiser, sub-category 1B.

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-

[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl]phenoxy}methyl)oxirane:

Test Type : Local lymph node assay (LLNA)

Exposure routes : Skin Species : Mouse

Method : OECD Test Guideline 429

Result : The product is a skin sensitiser, sub-category 1A.

bisphenol A - epoxy resins, number average MW >700 - <1100:

Exposure routes : Skin

Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: without metabolic activation

Result: positive

Test Type: reverse mutation assay Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay) Result: negative

Genotoxicity in vivo : Test Type: in vivo assay

Species: Mouse (male) Cell type: Germ Application Route: Oral Dose: 3333, 10000 mg/kg

Result: negative

Test Type: gene mutation test

Species: Rat (male)

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Cell type: Somatic Application Route: Oral

Dose: 50,250,500,1000 mg/kg bw/day Method: OECD Test Guideline 488

Result: negative

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl]phenoxy}methyl)oxirane:

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

Method: OECD Test Guideline 471

Result: positive

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

Genotoxicity in vivo : Cell type: Somatic

Application Route: Oral Exposure time: 48 h Dose: 2000 mg/kg

Method: OECD Test Guideline 474

Result: negative

Cell type: Somatic Application Route: Oral Dose: 2000 mg/kg

Method: OECD Test Guideline 486

Result: negative

bisphenol A - epoxy resins, number average MW >700 - <1100:

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

Method: OECD Test Guideline 476

Result: Positive results were obtained in some in vitro tests.

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Cell type: Germ

Application Route: Oral

Method: OECD Test Guideline 478

Result: negative

Cell type: Somatic Application Route: Oral Dose: 0 - 5000 mg/kg Method: OPPTS 870.5395

Result: negative

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Silica, amorphous, fumed, cryst.-free:

Metabolic activation: with and without metabolic activation Genotoxicity in vitro

Method: OECD Test Guideline 473

Result: negative

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 471

Result: negative

Application Route: Inhalation Genotoxicity in vivo

> Dose: 50 mg/m3 Result: negative

Carcinogenicity

Not classified due to lack of data.

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Species Rat, male **Application Route** Oral

Exposure time 24 month(s)

Dose 0, 2, 15, or 100 mg/kg bw/day

Frequency of Treatment 7 days/week NOAEL 15 mg/kg bw/day

Method **OECD Test Guideline 453**

Result negative

Target Organs Digestive organs

Species Mouse, male Application Route Dermal Exposure time 24 month(s)

0, 0.1, 10, 100 mg/kg bw/day Dose

Frequency of Treatment 3 davs/week

NOEL 0.1 mg/kg body weight **OECD Test Guideline 453** Method

Result negative **Target Organs** Digestive organs

Species Rat, female **Application Route** Dermal Exposure time 24 month(s)

Dose 0.1, 100, 1000 mg/kg bw/day

Frequency of Treatment 5 days/week

NOEL 100 mg/kg body weight Method **OECD Test Guideline 453**

Result negative

Rat, female Species Application Route Oral Exposure time 24 month(s)

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Dose : 0, 2, 15, or 100 mg/kg bw/day

Frequency of Treatment : 7 days/week NOAEL : 100 mg/kg bw/day

Method : OECD Test Guideline 453

Result : negative

Target Organs : Digestive organs

Species : Rat, females

Application Route : Oral

Exposure time : 24 month(s)

Dose : 0, 2, 15, or 100 mg/kg bw/day

Frequency of Treatment : 7 days/week NOEL : 2 mg/kg bw/day

Method : OECD Test Guideline 453

Result : negative

Target Organs : Digestive organs

bisphenol A - epoxy resins, number average MW >700 - <1100:

Species : Rat, male and female

Application Route : Oral
Exposure time : 24 month(s)
Dose : 15 mg/kg

Frequency of Treatment : 7 daily

Method : OECD Test Guideline 453

Result : negative

Silica, amorphous, fumed, cryst.-free:

Species : Rat, male and female

Application Route : Oral Exposure time : 103 weeks

Dose : 1800 - 3200 mg/kg

Frequency of Treatment : 7 daily

Method : OECD Test Guideline 453

Result : negative

Reproductive toxicity

Not classified due to lack of data.

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Dose: 0, 50, 180, 540 or 750 milligram per kilogram

Duration of Single Treatment: 238 d Frequency of Treatment: 1 daily

General Toxicity - Parent: NOEL: 540 mg/kg body weight General Toxicity F1: NOEL: 750 mg/kg body weight

Symptoms: No adverse effects Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

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Effects on foetal development

Species: Rabbit, female Application Route: Dermal

Dose: 0, 30, 100 or 300 milligram per kilogram

Duration of Single Treatment: 28 d Frequency of Treatment: 1 daily

General Toxicity Maternal: NOAEL: 30 mg/kg body weight Developmental Toxicity: NOAEL: 300 mg/kg body weight

Method: Other guidelines Result: No teratogenic effects

Test Type: Pre-natal Species: Rabbit, female Application Route: Oral

Dose: 0, 20, 60 or 180 milligram per kilogram

Duration of Single Treatment: 13 d Frequency of Treatment: 1 daily

General Toxicity Maternal: NOAEL: 60 mg/kg body weight Developmental Toxicity: NOAEL: 180 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Test Type: Pre-natal Species: Rat, female Application Route: Oral

Dose: 0, 60, 180 and 540 milligram per kilogram

Duration of Single Treatment: 10 d Frequency of Treatment: 1 daily

General Toxicity Maternal: NOAEL: 180 mg/kg body weight Developmental Toxicity: NOAEL: > 540 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Dose: 0, 50, 180, 540 or 750 mg/kg/ Duration of Single Treatment: 238 d General Toxicity - Parent: NOEL: 750

General Toxicity F1: NOEL: 750 mg/kg body weight General Toxicity F2: NOAEL: 750 mg/kg body weight

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

bisphenol A - epoxy resins, number average MW >700 - <1100:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

General Toxicity - Parent: NOEL: 750 mg/kg body weight

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General Toxicity F1: NOEL: 750 mg/kg body weight

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

Effects on foetal development

Species: Rabbit, female Application Route: Dermal

General Toxicity Maternal: NOAEL: 30 mg/kg body weight

Method: Other guidelines Result: No teratogenic effects

Species: Rabbit, female Application Route: Oral

General Toxicity Maternal: NOAEL: 60 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat, female Application Route: Oral

General Toxicity Maternal: NOAEL: 180 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Silica, amorphous, fumed, cryst.-free:

Effects on foetal

development

Species: Mouse

Application Route: Oral

General Toxicity Maternal: NOAEL: 1,340 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rabbit Application Route: Oral

General Toxicity Maternal: NOAEL: 1,600 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat

Application Route: Oral

General Toxicity Maternal: NOAEL: 1,350 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Species : Rat, male and female

NOAEL : 50 mg/kg

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Application Route : oral (gavage) Exposure time : 14 Weeks

Number of exposures : 7 d

Dose : 0, 50, 250, 1000 mg/kg/day Method : OECD Test Guideline 408

Species : Rat, male and female

NOAEL : >= 10 mg/kg
Application Route : Skin contact
Exposure time : 13 Weeks

Number of exposures : 5 d

Dose : 0, 10, 100, 1000 mg/kg/day Method : OECD Test Guideline 411

Species: Mouse, maleNOAEL: 100 mg/kgApplication Route: Skin contactExposure time: 13 Weeks

Number of exposures : 3 d

Dose : 0, 1, 10, 100 mg/kg/day
Method : OECD Test Guideline 411

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-($\{2-[4-(oxiran-2-1)]\}$

ylmethoxy)benzyl]phenoxy}methyl)oxirane:

Species : Rat, male and female

NOAEL : 250 mg/kg Application Route : Ingestion Exposure time : 13 Weeks

Number of exposures : 7 d

Method : Subchronic toxicity

bisphenol A - epoxy resins, number average MW >700 - <1100:

Species : Rat, male and female

NOAEL : 50 mg/kg
Application Route : Ingestion
Exposure time : 14 Weeks

Number of exposures : 7 d

Method : Subchronic toxicity

Species : Rat, male and female

NOEL : 10 mg/kg
Application Route : Skin contact
Exposure time : 13 Weeks

Number of exposures : 5 d

Method : Subchronic toxicity

Silica, amorphous, fumed, cryst.-free:

Species : Rat, male and female NOAEL : 7950 - 8980 mg/kg

Application Route : Ingestion Exposure time : 4,320 h Number of exposures : 7 d

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Method : Subchronic toxicity

Species : Rat, male and female NOEC : 4000 - 4500 mg/m3

Application Route : Ingestion
Test atmosphere : dust/mist
Exposure time : 13 Weeks

Number of exposures : 7 d

Method : OECD Test Guideline 413

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : This substance/mixture does not contain components

considered to have endocrine disrupting properties for human

health according to UK REACH Article 57(f),

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.8 mg/l

Exposure time: 48 h
Test Type: static test
Test substance: Fresh water

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 : 11 mg/l Exposure time: 72 h

Test Type: static test Test substance: Fresh water Method: EPA-660/3-75-009

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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NOEC: 4.2 mg/l Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: EPA-660/3-75-009

Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h Test Type: static test

Test substance: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 0.3 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

Ecotoxicology Assessment

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

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-

[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl]phenoxy}methyl)oxirane:

Toxicity to fish : LC50 (Fish): 2.54 mg/l

Exposure time: 96 h

Test substance: Fresh water Method: Calculation method

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.55 mg/l

Exposure time: 48 h

Method: Calculation method

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): > 1.8 mg/l

Exposure time: 72 h
Test Type: static test

Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201

GLP: no

Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Test substance: Fresh water

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 0.3 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test Analytical monitoring: no

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Test substance: Fresh water Method: OECD Test Guideline 211

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

bisphenol A - epoxy resins, number average MW >700 - <1100:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 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)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EgC50 (Selenastrum capricornutum (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Silica, amorphous, fumed, cryst.-free:

Toxicity to fish : LL50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): >= 1,000 mg/l

Exposure time: 24 h
Test Type: static test

Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EL50 (Desmodesmus subspicatus (green algae)): > 10,000

mg/l

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

12.2 Persistence and degradability

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 5 %

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Exposure time: 28 d

Method: OECD Test Guideline 301F

Stability in water : Degradation half life (DT50): 4.83 d (25 °C)

pH: 4

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life (DT50): 7.1 d (25 °C)

pH: 9

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life (DT50): 3.58 d (25 °C)

pH: 7

Method: OECD Test Guideline 111

Remarks: Fresh water

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-

[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl]phenoxy}methyl)oxirane:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Concentration: 3 mg/l Result: Not biodegradable Biodegradation: ca. 0 % Exposure time: 28 d

Method: Directive 67/548/EEC Annex V, C.4.E.

bisphenol A - epoxy resins, number average MW >700 - <1100:

Biodegradability : Test Type: aerobic

Inoculum: Sewage (STP effluent)

Concentration: 20 mg/l Result: Not biodegradable Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Stability in water : Degradation half life (DT50): 4.83 d (25 °C)

pH: 4

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life (DT50): 7.1 d (25 °C)

pH: 9

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life (DT50): 3.58 d (25 °C)

pH: 7

Method: OECD Test Guideline 111

Remarks: Fresh water

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12.3 Bioaccumulative potential

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Bioaccumulation : Bioconcentration factor (BCF): 31

Remarks: Does not bioaccumulate.

Partition coefficient: n- : log Pow: 3.242 (25 °C)

octanol/water pH: 7.1

Method: OECD Test Guideline 117

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-

[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl]phenoxy}methyl)oxirane:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 150 Remarks: Does not bioaccumulate.

Partition coefficient: n- : log Pow: 2.7 - 3.6

octanol/water Method: OECD Test Guideline 117

GLP: yes

bisphenol A - epoxy resins, number average MW >700 - <1100:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 31 Remarks: Does not bioaccumulate.

12.4 Mobility in soil

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Distribution among : Koc: 445

environmental compartments

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-

[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl]phenoxy}methyl)oxirane:

Distribution among : Koc: 4460

environmental compartments Method: OECD Test Guideline 121

bisphenol A - epoxy resins, number average MW >700 - <1100:

Distribution among : Koc: 445

environmental compartments

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.

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12.6 Other adverse effects

Product:

Endocrine disrupting

potential

 This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Contaminated packaging : Empty remaining contents.

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

SECTION 14: Transport information

14.1 UN number or ID number

 ADR
 : UN 3082

 RID
 : UN 3082

 IMDG
 : UN 3082

 IATA
 : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN, BISPHENOL F EPOXY

RESIN)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN, BISPHENOL F EPOXY

RESIN)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN, BISPHENOL F EPOXY

RESIN)

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

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(BISPHENOL A EPOXY RESIN, BISPHENOL F EPOXY

RESIN)

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction : 964

(passenger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

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IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the

following entries should be

considered: Number on list 3

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

This product does not contain substances of very high concern.

UK REACH List of substances subject to authorisation : Not applicable

(Annex XIV)

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

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

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

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

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

TSCA : All substances listed as active on the TSCA inventory

Inventories

AICS (Australia), AIIC (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

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Full text of H-Statements

H315 : Causes skin irritation.

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

H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aguatic Chronic : Long-term (chronic) aguatic hazard

Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

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

Further information

Classification of the mixture: Classification procedure:

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

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

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

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

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

1.1 Product identifier

Trade name · ARALDITE® STANDARD ULTRA HARDENER

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

: Hardener

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

: HUNTSMAN ADVANCED MATERIALS (UK) LIMITED Company

Address : Ickleton Road, Duxford, Cambridgeshire

CB22 4XQ United Kingdom

Telephone : +41 61 299 20 41

E-mail address of person responsible for the SDS

: Global_Product_EHS_AdMat@huntsman.com

1.4 Emergency telephone number

: EUROPE: +32 35 75 1234 Emergency telephone number

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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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

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

Long-term (chronic) aquatic hazard,

Category 2

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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Hazard pictograms







Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : P101 If medical advice is needed, have product

container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

Prevention:

P273 Avoid release to the environment.

P280 Wear protective gloves/ 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.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved

facility in accordance with local, regional, national

and international regulations.

Hazardous components which must be listed on the label:

Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine Amines, polyethylenepoly-, tetraethylenepentamine fraction Amines, polyethylenepoly-, triethylenetetramine fraction

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.	Classification	Concent
	EC-No.		ration

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	Index-No. Registration number		(% w/w)
Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction	-	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Chronic 2; H411	>= 50 - < 70
Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine	68154-62-1 Polymer	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 30 - < 50
Amines, polyethylenepoly-, tetraethylenepentamine fraction	90640-66-7 292-587-7	Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 5 - < 10
Amines, polyethylenepoly-, triethylenetetramine fraction	90640-67-8 292-588-2	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 0.25 - < 1

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.

Treat symptomatically.

Get medical attention if symptoms occur.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

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

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

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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.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

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

Risks : May cause an allergic skin reaction.

Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Exercise caution when using a high volume water jet as it may

scatter and spread fire

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

Carbon oxides

Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

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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.

Refer to protective measures listed in sections 7 and 8.

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.

6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation

and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this

product.

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.

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.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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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. Keep in properly

labelled containers.

Advice on common storage : Do not store near acids.

Recommended storage

temperature

: 2 - 40 °C

Further information on

storage stability

: Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health effects	Value
Amines, polyethylenepoly-, tetraethylenepentamin e fraction	Workers	Inhalation	Long-term systemic effects	0.82 mg/m3
	Workers	Dermal	Long-term local effects	0.25 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	0.14 mg/m3
	Consumers	Dermal	Long-term local effects	0.021 mg/cm2
	Consumers	Oral	Long-term systemic effects	0.21 mg/kg bw/day
Amines, polyethylenepoly-, triethylenetetramine fraction	Workers	Inhalation	Long-term systemic effects	0.54 mg/m3
	Consumers	Inhalation	Long-term systemic effects	0.096 mg/m3
	Consumers	Oral	Long-term systemic effects	14 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
Amines, polyethylenepoly-,	Fresh water	0.01 mg/l

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tetraethylenepentamine fraction			
	Remarks: Assessment Factors		
	Marine water	0.001 mg/l	
	Remarks: Assessment Factors		
	Freshwater - intermittent	0.068 mg/l	
	Remarks: Assessment Factors		
	Sewage treatment plant	4.6 mg/l	
	Remarks: Assessment Factors	·	
	Fresh water sediment	3.198 mg/kg dry weight (d.w.)	
	Remarks:Equilibrium method		
	Marine sediment	0.32 mg/kg dry weight (d.w.)	
	Remarks:Equilibrium method		
	Soil	2.5 mg/kg dry weight (d.w.)	
	Remarks: Assessment Factors		
Amines, polyethylenepoly-, triethylenetetramine fraction	Fresh water	0.027 mg/l	
-	Marine water	0.003 mg/l	
	Sewage treatment plant	0.13 mg/l	
	Fresh water sediment	8.572 mg/kg dry weight (d.w.)	
	Marine sediment	0.857 mg/kg dry weight (d.w.)	
	Soil	1.25 mg/kg dry weight (d.w.)	

8.2 Exposure controls

Personal protective equipment

Eye/face 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

Break through time : > 8 h

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

Material : Ethyl Vinyl Alcohol Laminate (EVAL)

Break through time : > 8 h

Remarks : Gloves should be discarded and replaced if there is any

indication of degradation or chemical breakthrough. 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).

The selected protective gloves have to satisfy the

specifications of Regulation (EU) 2016/425 and the standard

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EN 374 derived from it.

Skin and body protection : Impervious clothing

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.

Equipment should conform to EN 14387

Filter type : Combined particulates and ammonia/amines type (K-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : yellow

Odour : No data is available on the product itself.

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

Melting point/freezing point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

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

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Flash point : $> 150 \, ^{\circ}\text{C}$

Method: Pensky-Martens closed cup

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

Decomposition temperature : No data is available on the product itself.

pH : 11

Concentration: 500 g/l

Viscosity

Viscosity, dynamic : 25,000 - 30,000 mPa.s (25 °C)

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Solubility(ies)

Water solubility : practically insoluble (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.

Vapour pressure : No data is available on the product itself.

Density : 0.97 g/cm3 (25 °C)

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

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

Particle characteristics : No data is available on the product itself.

9.2 Other information

No data is available on the product itself.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified due to lack of data.

Product:

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Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Components:

Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Method: OECD Test Guideline 423

Assessment: The substance or mixture has no acute oral

toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Acute oral toxicity : LD50 (Rat, male): 3,221 mg/kg

Method: Calculation method

Assessment: The component/mixture is minimally toxic after

single ingestion.

Acute dermal toxicity : LD50 (Rabbit, male and female): 1,260 mg/kg

Method: OECD Test Guideline 402

Amines, polyethylenepoly-, triethylenetetramine fraction:

Acute oral toxicity : LD50 (Rat, male and female): 1,716.2 mg/kg

Method: OECD Test Guideline 401

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute dermal toxicity : LD50 (Rabbit, male and female): 1,465.4 mg/kg

Method: OECD Test Guideline 402

Assessment: The component/mixture is moderately toxic after

single contact with skin.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Mild skin irritation

GLP : yes

Components:

Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction:

Species : human skin

Assessment : May cause eye and skin irritation.

Method : OECD Test Guideline 431

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Result : May cause eye and skin irritation.

Species : human skin Assessment : Irritant

Method : OECD Test Guideline 439

Result : Irritating to skin.

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

Assessment : Irritating to skin.

Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Species : reconstructed human epidermis (RhE)

Assessment : Causes burns.

Method : OECD Test Guideline 435

Result : Corrosive after 3 minutes to 1 hour of exposure

GLP : yes

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species : reconstructed human epidermis (RhE)

Assessment : Causes burns.

Method : OECD Test Guideline 435

Result : Corrosive after 3 minutes to 1 hour of exposure

Species : Rabbit
Assessment : Causes burns.

Method : OECD Test Guideline 404

Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Species : Rabbit Assessment : Corrosive

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

GLP : yes

Remarks : May cause irreversible eye damage.

Components:

Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Corrosive

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

Assessment : Irritating to eyes.

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Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Assessment : Risk of serious damage to eyes. Result : Risk of serious damage to eyes.

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species : Rabbit

Assessment : Risk of serious damage to eyes.

Method : OECD Test Guideline 405

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Components:

Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction:

Exposure routes : Skin Species : Mouse

Method : OECD Test Guideline 429

Result : The product is a skin sensitiser, sub-category 1A.

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

Assessment : May cause sensitisation by skin contact.

Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Assessment : May cause sensitisation by skin contact.
Result : May cause sensitisation by skin contact.

Amines, polyethylenepoly-, triethylenetetramine fraction:

Exposure routes : Skin

Species : Guinea pig

Assessment : Probability or evidence of skin sensitisation in humans

Method : OECD Test Guideline 406

Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction:

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

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

Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Genotoxicity in vitro : Test Type: reverse mutation assay

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: positive

Test Type: gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

Test Type: Micronucleus test
Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse (male and female)

Cell type: Bone marrow

Application Route: Intraperitoneal injection

Dose: 185/370/600 mg/kg

Method: OECD Test Guideline 474

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Amines, polyethylenepoly-, triethylenetetramine fraction:

Genotoxicity in vitro : Test Type: reverse mutation assay

Test system: Salmonella tryphimurium and E. coli

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive GLP: yes

Test Type: Micronucleus test Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 487

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse (male and female)

Cell type: Bone marrow

Application Route: Intraperitoneal injection

Dose: 0 - 600 mg/kg

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Not classified due to lack of data.

Components:

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species : Mouse, male Application Route : Dermal

NOAEL : >= 50 mg/kg bw/day
Method : OECD Test Guideline 451

Result : negative

Species : Mouse, male
Application Route : Dermal
Exposure time : 104 weeks

NOAEL : >= 20 mg/kg bw/day
Method : OECD Test Guideline 451

Result : negative

Reproductive toxicity

Not classified due to lack of data.

Components:

Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18

(unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction:

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.

Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Effects on foetal : Test Type: Pre-natal development : Species: Rabbit, female

Application Route: Dermal Dose: 5/50/125 mg/kg bw/d Duration of Single Treatment: 13 d

General Toxicity Maternal: NOAEL: 50 mg/kg body weight Developmental Toxicity: NOAEL: >= 125 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Remarks: Information given is based on data obtained from

similar substances.

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Test Type: Pre-natal Species: Rat, female Application Route: Oral

Dose: 75/325/750 mg/kg bw/d Duration of Single Treatment: 10 d

General Toxicity Maternal: NOAEL: >= 750 mg/kg body weight Developmental Toxicity: NOAEL: >= 750 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Remarks: Information given is based on data obtained from

similar substances.

Test Type: Pre-natal Species: Rat, female Application Route: Oral

Dose: 200/400/800 mg/kg bw(d Duration of Single Treatment: 14 d

General Toxicity Maternal: NOEL: 200 mg/kg body weight Developmental Toxicity: NOAEL: >= 400 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Remarks: Information given is based on data obtained from

similar substances.

Amines, polyethylenepoly-, triethylenetetramine fraction:

Effects on foetal development

: Test Type: Pre-natal

Species: Rat

Application Route: Oral

Dose: 75/325/750 mg/kg bw/day Duration of Single Treatment: 10 d

General Toxicity Maternal: NOAEL: >= 750 mg/kg body weight Developmental Toxicity: NOAEL: >= 750 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Test Type: Pre-natal Species: Rabbit

Application Route: Dermal Dose: 5/50/125 mg/kg bw/day Duration of Single Treatment: 13 d

General Toxicity Maternal: NOAEL: 50 mg/kg body weight Developmental Toxicity: NOAEL: >= 125 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

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Repeated dose toxicity

Components:

Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction:

Species : Rat, male and female

NOAEL : 1000 mg/kg
Application Route : Ingestion
Exposure time : 6 Weeks
Number of exposures : 7 d

Method : Subacute toxicity

Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Species : Rat, male and female

NOAEL : 350 mg/kg/d

Application Route : Oral Exposure time : 28 d

Dose : 100/350/1200 mg/kg bw/day Method : OECD Test Guideline 407

Target Organs : Lungs

Remarks : Information given is based on data obtained from similar

substances.

Species : Rat, female
NOAEL : 50 mg/kg
Application Route : Oral
Exposure time : 90 d

Dose : 50/175/600 mg/kg bw/d
Method : OECD Test Guideline 408

Target Organs : Lungs

Remarks : Information given is based on data obtained from similar

substances.

Species : Dog, male and female

NOAEL : 125 mg/kg Application Route : Oral

Application Route : Oral Exposure time : 28 d Target Organs : Lungs

Remarks : Information given is based on data obtained from similar

substances.

Species : Rat, male and female

NOAEL : 350 mg/kg
Application Route : Oral
Exposure time : 4 weeks
Number of exposures : daily

Dose : 100/350/1200 mg/kg bw/d Method : OECD Test Guideline 408

Remarks : Information given is based on data obtained from similar

substances.

Species : Rat, male and female NOAEL : 600 - 3000 ppm
Application Route : oral (drinking water)

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Exposure time : 92 days

Dose : 120/600/3000 ppm

Method : OECD Test Guideline 408

Remarks : Information given is based on data obtained from similar

substances.

Species : Mouse, male and female

NOAEL : 600 ppm

Application Route : oral (drinking water)

Exposure time : 92 days

Dose : 120/600/3000 ppm

Method : OECD Test Guideline 408

Remarks : Information given is based on data obtained from similar

substances.

Species : Rabbit, male and female

NOEL : >= 200 mg/kg
Application Route : Dermal
Exposure time : 20 days 6 h
Number of exposures : 5 days/week

Dose : 50/100/200 mg/kg bw/day
Method : OECD Test Guideline 410

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species : Rat, male and female

NOAEL : 350 mg/kg
Application Route : Oral
Exposure time : 28 d
Number of exposures : 7 d

Dose : 100/350/1000 mg/kg bw/day Method : OECD Test Guideline 407

Target Organs : Lungs

Remarks : Information given is based on data obtained from similar

substances.

Species : Dog, male and female

NOAEL : 125 mg/kg Application Route : Oral Target Organs : Lungs

Remarks : Information given is based on data obtained from similar

substances.

Species : Dog, male and female

NOAEL : 50 mg/kg Application Route : Oral

Method : Subchronic toxicity

Remarks : Information given is based on data obtained from similar

substances.

Species : Rat, male and female

NOAEL : 50 mg/kg Application Route : Oral Exposure time : 26 weeks

Dose : 50/175/600 mg/kg bw/day

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Method : OECD Test Guideline 408

Target Organs : Lungs

Remarks : Information given is based on data obtained from similar

substances.

Species : Mouse, male and female NOAEL : 92 mg/kg, 600 ppm

Application Route : Oral

Exposure time : 120/600/3000 ppm
Method : OECD Test Guideline 408

Remarks : Information given is based on data obtained from similar

substances.

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : This substance/mixture does not contain components

considered to have endocrine disrupting properties for human

health according to UK REACH Article 57(f),

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 7.07 mg/l

Exposure time: 96 h
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

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Toxicity to algae/aquatic

plants

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.

Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 420 mg/l

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

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

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 24.1 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Test substance: Fresh water

Method: Tested according to Annex V of Directive

67/548/EEC.

Toxicity to algae/aquatic

plants

: ErC50 (Selenastrum capricornutum (green algae)): 6.8 mg/l

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

NOEC (Selenastrum capricornutum (green algae)): 0.5 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): 97.3 mg/l

Exposure time: 2 h Test Type: static test

Test substance: Fresh water

NOEC: 500 mg/l Exposure time: 28 d

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Method: OECD Test Guideline 216

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

: EC10: 1.9 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test substance: Fresh water Method: OECD Test Guideline 202

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to soil dwelling

organisms

NOEC: 125 mg/kg Exposure time: 55 d

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

Amines, polyethylenepoly-, triethylenetetramine fraction:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 570 mg/l

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

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

LC50 (Leuciscus idus (Golden orfe)): 200 - 500 mg/l

Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 330 mg/l

End point: mortality Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: EPA OTS 797.1400

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 31.1 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic

plants

ErC50 (Selenastrum capricornutum (green algae)): 20 mg/l

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

EC10 (Selenastrum capricornutum (green algae)): 1.34 mg/l

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

Toxicity to microorganisms : NOEC (Bacteria): >= 100 mg/l

Exposure time: 28 d

Method: OECD Test Guideline 216

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EC50 (Bacteria): > 100 mg/l

Exposure time: 28 h

Method: OECD Test Guideline 216

EC50 (Bacteria): 15.7 mg/l Exposure time: 2 h Test Type: static test

Test substance: Fresh water

NOEC (Bacteria): 1.3 mg/l Exposure time: 2 h Test Type: static test Test substance: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

EC10: 1.9 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to soil dwelling

organisms

NOEC: ca. 62.5 mg/kg Exposure time: 56 d

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

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

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

Ecotoxicology Assessment

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

12.2 Persistence and degradability

Components:

Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge

Result: Not inherently biodegradable.

Biodegradation: 17 % Exposure time: 84 d

Method: OECD Test Guideline 302 A

Test substance: Fresh water

Test Type: aerobic Inoculum: activated sludge Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 162 d

Method: OECD Test Guideline 301D

Test substance: Fresh water

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Amines, polyethylenepoly-, triethylenetetramine fraction:

Biodegradability : Inoculum: activated sludge

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 162 d

Method: OECD Test Guideline 301D

Test substance: Fresh water

Test Type: aerobic

Inoculum: activated sludge

Result: Not inherently biodegradable.

Biodegradation: 20 %

Related to: Dissolved organic carbon (DOC)

Exposure time: 84 d

Method: OECD Test Guideline 302A

Test substance: Fresh water

12.3 Bioaccumulative potential

Components:

Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Partition coefficient: n-

: log Pow: -2.6 (20 °C)

octanol/water

Amines, polyethylenepoly-, triethylenetetramine fraction:

Partition coefficient: n- : log Pow: -2.08 - 2.90 (20 °C)

octanol/water Method: QSAR

12.4 Mobility in soil

Components:

Amines, polyethylenepoly-, tetraethylenepentamine fraction:

Distribution among : Koc: 3.2 - 3.7

environmental compartments Method: OECD Test Guideline 106

Amines, polyethylenepoly-, triethylenetetramine fraction:

Distribution among : Koc: 3162.28, log Koc: 3.5

environmental compartments Method: OECD Test Guideline 106

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

Product:

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Endocrine disrupting

potential

This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Contaminated packaging : Empty remaining contents.

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

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(POLYAMIDE RESIN)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(POLYAMIDE RESIN)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(POLYAMIDE RESIN)

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

(POLYAMIDE RESIN)

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR : 9 **RID** : 9

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IMDG : 9 **IATA** : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III Labels : 9

EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo

aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

964

IATA (Passenger)

Packing instruction : 964

(passenger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the

following entries should be

considered: Number on list 3

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

This product does not contain substances of very high concern.

UK REACH List of substances subject to authorisation

(Annex XIV)

: Not applicable

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

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

AIIC : 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 : All substances listed as active on the TSCA inventory

Inventories

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

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15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

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.

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 : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

Further information

Classification of the mixture: Classification procedure:

Eye Dam. 1 H318 Based on product data or assessment

Skin Sens. 1 H317 Calculation method Aquatic Chronic 2 H411 Calculation method

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

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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