according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : ARADUR® HY 1300 CH

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

Use of the : Component used for the manufacture of electrical insulation

Substance/Mixture parts

Recommended restrictions

on use

: For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe)BVBA

Address : Everslaan 45

3078 Everberg Belgium

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

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)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Acute toxicity, Category 4 H312: Harmful in contact with skin.

Skin corrosion, Sub-category 1B H314: Causes severe skin burns and eye damage.

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

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

Long-term (chronic) aquatic hazard, H411: Toxic to aquatic life with long lasting effects.

Category 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :







Signal word : Danger

Hazard statements : H302 + H312 Harmful if swallowed or in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh

air and keep comfortable for breathing.

Immediately call a POISON

CENTER/doctor.

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.

Hazardous components which must be listed on the label:

Propylidynetrimethanol, propoxylated, reaction products with ammonia

Amines, polyethylenepoly-, triethylenetetramine fraction

Salicylic acid

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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No.	Classification	Concent
	EC-No.		ration
	Index-No.		(% w/w)
	Registration number		(, , ,
Propylidynetrimethanol,	39423-51-3	Acute Tox. 4; H302	>= 70 -
propoxylated, reaction products	500-105-6	Acute Tox. 4; H312	< 90
with ammonia		Eye Dam. 1; H318	
		Aquatic Chronic 2;	
		H411	
Amines, polyethylenepoly-,	90640-67-8	Acute Tox. 4; H302	>= 10 -
triethylenetetramine fraction	292-588-2	Acute Tox. 4; H312	< 20
	01-2119487919-13	Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	
		Aquatic Chronic 3;	
		H412	
Salicylic acid	69-72-7	Acute Tox. 4; H302	>= 3 - <
	200-712-3	Eye Dam. 1; H318	10
	01-2119486984-17		

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.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

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

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

tissue damage and blindness.

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

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

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If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

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

4.2 Most important symptoms and effects, both acute and delayed

None known.

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 : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

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

courses.

Hazardous combustion

products

Ammonia 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

: No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in

accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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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 : Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

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

Smoking, eating and drinking should be prohibited in the

application area.

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

regulations.

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

used.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

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

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label

precautions. Keep in properly labelled containers.

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

SDS.

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storage stability

Further information on : 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

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Propylidynetrimethanol , propoxylated, reaction products with ammonia	Workers	Inhalation	Long-term systemic effects	5.64 mg/m3
	Workers	Dermal	Long-term systemic effects	1.6 mg/kg
Salicylic acid	Workers	Dermal	Long-term systemic effects	2 mg/kg
	Workers	Inhalation	Long-term systemic effects	16 mg/m3
	Consumers	Oral	Acute systemic effects	4 mg/kg
	Consumers	Dermal	Long-term systemic effects	1 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4 mg/m3
	Consumers	Oral	Long-term systemic effects	1 mg/kg
	Consumers	Inhalation	Long-term local effects	0.2 mg/m3
Amines, polyethylenepoly-, triethylenetetramine fraction	Workers	Inhalation	Acute systemic effects	5380 mg/m3
	Workers	Dermal	Long-term systemic effects	0.57 mg/kg
	Workers	Inhalation	Long-term systemic effects	1 mg/m3
	Workers	Dermal	Long-term local effects	0.028 mg/m3
	Consumers	Dermal	Acute systemic effects	8 mg/kg

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Consumers	Inhalation	Acute systemic effects	1600 mg/m3
Consumers	Oral	Acute systemic effects	20 mg/kg
Consumers	Dermal	Acute local effects	1 mg/cm2
Consumers	Dermal	Acute local effects	0.25 mg/kg
Consumers	Inhalation	Long-term systemic effects	0.29 mg/m3
Consumers	Oral	Long-term systemic effects	0.41 mg/kg
Consumers	Dermal	Long-term local effects	0.43 mg/cm2

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

Substance name		Environmental Compartment	Value
Propylidynetrimethanol, propoxylated, reaction products with ammonia		Fresh water	0.0044 mg/l
Remarks:	Assessme	ent Factors	
	·	Marine water	0 mg/l
	Assessme	ent Factors	
	<u> </u>	Fresh water sediment	0.02 mg/kg
	Equilibriun	m method	
		Marine sediment	0.002 mg/kg
	Equilibriur	m method	
	1	Soil	0.002 mg/kg
Equilibriun		m method	
	1	Sewage treatment plant	10 mg/l
	Assessme	ent Factors	-
Salicylic acid	'	Fresh water	0.2 mg/l
		Marine water	0.02 mg/l
		Freshwater - intermittent	1 mg/l
		Sewage treatment plant	162 mg/l
		Fresh water sediment	1.42 mg/kg
		Marine sediment	0.142 mg/kg
		Soil	0.166 mg/kg
		Secondary Poisoning	
Amines, polyethylenepoly-, triethylenetetramine fraction		Fresh water	190 µg/l
	Assessme	ent Factors	<u>.</u>

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	Fresh water sediment	95.9 mg/kg
Equilibriun	n method	
	Marine water	38 µg/l
Assessme	ent Factors	
	Freshwater - intermittent	200 μg/l
Assessme	ent Factors	
	Marine sediment	19.2 mg/kg
Equilibriun	n method	
	Soil	19.1 mg/kg
Equilibriun	n method	
	Sewage treatment plant	4.25 mg/l
Assessme	ent Factors	,
1	Secondary Poisoning	0.18 mg/kg
Assessme	ent Factors	•

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Remarks : 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 : No personal respiratory protective equipment normally

required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : light brown

Odour : amine-like

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

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pH : 11 (20 °C)

Concentration: 500 g/l

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

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

Boiling point : > 200 °C

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

Method: Pensky-Martens closed cup

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

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

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

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : <1 hPa (20 °C)

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

Relative density : 1 (25 °C)

Density : 1 g/cm3 (25 °C)

Solubility(ies)

Water solubility : partly miscible (20 °C)

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

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

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

Decomposition temperature : > 200 °C

Viscosity

Viscosity, dynamic : 160 - 200 mPa.s (25 °C)

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

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

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9.2 Other information

No data available

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 : Strong acids

Strong bases

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

: ammonia, anhydrous

Aldehydes Nitrogen oxides

carbon monoxide carbon dioxide

Ketones

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : 624.28 mg/kg

Method: Calculation method

Acute inhalation toxicity : No data available

Acute dermal toxicity -

: Acute toxicity estimate : 1,213 mg/kg

Product

Method: Calculation method

Acute toxicity (other routes of

administration)

: No data available

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Skin corrosion/irritation

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Mild skin irritation

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Corrosive after 3 minutes to 1 hour of exposure

Salicylic acid: Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

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

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species: Rabbit Assessment: Corrosive

Method: OECD Test Guideline 404

Result: Corrosive

Salicylic acid: Species: Rabbit Assessment: Corrosive

Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

Exposure routes: Skin Species: Guinea pig

Result: Does not cause skin sensitisation.

Amines, polyethylenepoly-, triethylenetetramine fraction:

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

Salicylic acid:

Exposure routes: Skin

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Species: Mouse

Method: OECD Test Guideline 429 Result: Does not cause skin sensitisation.

Assessment: No data available

Germ cell mutagenicity

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

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

Method: OECD Test Guideline 471

Result: negative

Metabolic activation: Metabolic activation
Method: OECD Test Guideline 482

Result: negative

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Amines, polyethylenepoly-, triethylenetetramine fraction:

Genotoxicity in vitro : Concentration: 0 - 200 µg/L

Metabolic activation: negative Method: OECD Test Guideline 482

Result: negative

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

Genotoxicity in vivo : Cell type: Somatic

Application Route: Intraperitoneal injection

Dose: 2.5 mg/kg

Method: OECD Test Guideline 474

Result: negative

Amines, polyethylenepoly-, triethylenetetramine fraction:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Dose: 0 - 600 mg/kg

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Components:

Amines, polyethylenepoly-, triethylenetetramine fraction:

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Species: Mouse, male Application Route: Dermal

Dose: 42 mg/kg

Frequency of Treatment: 3 daily Method: OECD Test Guideline 451

Result: negative

Salicylic acid:

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

Dose: 500 mg/kg

Frequency of Treatment: 7 daily

Result: negative

Carcinogenicity - : No data available

Assessment

Reproductive toxicity

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

Effects on fertility : Species: Rat, male and female

Application Route: Dermal Dose: 0, 10, 50, 100 mg/kg

General Toxicity - Parent: No observed adverse effect level: >

100 mg/kg body weight

General Toxicity F1: No observed adverse effect level: > 100

mg/kg body weight

Method: OECD Test Guideline 421

Result: No effects on fertility and early embryonic

development were detected.

Salicylic acid:

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 416

Result: negative

Species: Mouse Application Route: Oral

Method: OECD Test Guideline 416

Result: negative

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

Effects on foetal : Species: Rat

development Application Route: Oral

Dose: 0, 10, 100, 125, 200 mg/kg

General Toxicity Maternal: No-observed-effect level: > 100

mg/kg body weight

Embryo-foetal toxicity: No-observed-effect level: > 100 mg/kg

body weight

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Method: OECD Test Guideline 414

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

> 750 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rabbit

Application Route: Dermal

General Toxicity Maternal: No observed adverse effect level:

125 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Salicylic acid:

Species: Rabbit, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

125 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Components:

Amines, polyethylenepoly-, triethylenetetramine fraction:

Reproductive toxicity - : The reprotoxic effects of Triethylenetetramine (TETA) are Assessment under further evaluation as part of the EU REACH program

due in part to the aminoethyl ethanolamine (AEEA) content.

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

Species: Rat, male and female

NOAEL: >= 100 mg/kg Application Route: Oral

Exposure time: 90 d Dose: 0, 10, 75, 100, 150, 200 mg/kg

Method: OECD Test Guideline 408

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species: Rat, male and female

NOAEL: 50 mg/kg

Application Route: Ingestion

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Exposure time: 26 WeeksNumber of exposures: 7 d

Method: Subchronic toxicity

Salicylic acid:

Species: Dog, male and female

NOEC: 700

Application Route: Ingestion Test atmosphere: vapour

Exposure time: 4 WeeksNumber of exposures: 6 d

Method: OECD Test Guideline 412

Species: Rat, male and female

LOAEL: 250 mg/kg

Application Route: Ingestion

Exposure time: 2 yrNumber of exposures: 7 d

Method: Chronic toxicity

Repeated dose toxicity -

Assessment

: No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

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Ingestion: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

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)): 13 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 4.4 mg/l

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

NOEC (Selenastrum capricornutum (green algae)): 1 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): ca. 1,000 mg/l

Exposure time: 0.5 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

Amines, polyethylenepoly-, triethylenetetramine fraction:

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

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

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

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

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Toxicity to algae : 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

Toxicity to microorganisms : EC50 (activated sludge): 800 mg/l

Exposure time: 0.5 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

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Salicylic acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,370 mg/l

Exposure time: 96 h

Test Type: flow-through test
Test substance: Fresh water
Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 : 870 mg/l Exposure time: 48 h

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

Toxicity to algae : EC50 : > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): 380 mg/l

Exposure time: 16 h
Test Type: static test
Test substance: Fresh water

Method: Cell multiplication inhibition test

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

NOEC: 10 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

12.2 Persistence and degradability

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

according to Regulation (EC) No. 1907/2006



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Biodegradability : Concentration: 100 mg/l

Result: Not readily biodegradable.

Biodegradation: < 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Stability in water : Degradation half life (DT50): > 1 yr (25 °C)

pH: 7.5

Method: OECD Test Guideline 111

Remarks: Fresh water

Amines, polyethylenepoly-, triethylenetetramine fraction:

Biodegradability : Inoculum: activated sludge

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 162 d

Method: OECD Test Guideline 301D

Inoculum: activated sludge Result: Not readily biodegradable.

Biodegradation: 20 % Exposure time: 84 d

Method: OECD Test Guideline 302 A

Chemical Oxygen Demand

(COD)

: 1,940 mg/g

Salicylic acid:

Biodegradability : Inoculum: Mixture

Result: Readily biodegradable. Biodegradation: 88.1 % Exposure time: 14 d

Method: OECD Test Guideline 301C

Biochemical Oxygen : 950 mgO2/g

Demand (BOD) Method: Directive 67/548/EEC, Annex V, C.5

Chemical Oxygen Demand

(COD)

: 1580 mgO2/g

12.3 Bioaccumulative potential

Components:

Propylidynetrimethanol, propoxylated, reaction products with ammonia:

Partition coefficient: n- : log Pow: -1.13 (20 - 25 °C)

octanol/water pH: 12.7

Method: Partition coefficient

Amines, polyethylenepoly-, triethylenetetramine fraction: Partition coefficient: n- : log Pow: -2.65 (20 °C)

octanol/water Method: OECD Test Guideline 117

Salicylic acid:

according to Regulation (EC) No. 1907/2006



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Partition coefficient: n- : log Pow: 2.25 (25 °C)

octanol/water Method: OECD Test Guideline 117

12.4 Mobility in soil

Components:

Amines, polyethylenepoly-, triethylenetetramine fraction: Distribution among : Koc: 1584.9 - 5012

environmental compartments Method: OECD Test Guideline 106

Salicylic acid:

Distribution among : Koc: 35

environmental compartments Method: OECD Test Guideline 121

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:

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

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and

national regulations.

Dispose of contents/ container to an approved waste disposal

plant.

Contaminated packaging : Empty remaining contents.

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

SECTION 14: Transport information

IATA

according to Regulation (EC) No. 1907/2006



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14.1 UN number : UN 3267

14.2 UN proper shipping : Corrosive liquid, basic, organic, n.o.s.

name

(ALIPHATIC POLYAMINE)

14.3 Transport hazard : 8

class(es)

14.4 Packing group : 11

Corrosive 855

Packing instruction (cargo

aircraft)

Packing instruction : 851

(passenger aircraft)

IMDG

14.1 UN number : UN 3267

14.2 UN proper shipping

name

: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

(ALIPHATIC POLYAMINE) 14.3 Transport hazard 8

class(es)

14.4 Packing group Ш Labels 8

EmS Code : F-A, S-B

14.5 Environmental hazards

Marine pollutant : yes

ADR

14.1 UN number : UN 3267

14.2 UN proper shipping : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

name

(ALIPHATIC POLYAMINE)

14.3 Transport hazard : 8

class(es)

14.4 Packing group : 11 Labels 8

14.5 Environmental hazards

Environmentally hazardous : yes

RID

14.1 UN number : UN 3267

14.2 UN proper shipping : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

name

(ALIPHATIC POLYAMINE)

14.3 Transport hazard : 8

class(es)

14.4 Packing group : 11 Labels 8

14.5 Environmental hazards

Environmentally hazardous : no

according to Regulation (EC) No. 1907/2006



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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: This product does not contain substances of very high concern

(Regulation (EC) No

1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

REACH - List of substances subject to authorisation -

Future sunset date

: Not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

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

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

NZIoC : Not 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

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

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

Inventories

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

15.2 Chemical safety assessment

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.
H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

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 Skin Corr. : Skin corrosion Skin Sens. : Skin sensitisation

Further information

Classification of the mixture: Classification procedure:

Acute Tox. 4 Calculation method H302 Acute Tox. 4 H312 Calculation method Skin Corr. 1B H314 Calculation method Eve Dam. 1 H318 Calculation method Skin Sens. 1 Calculation method H317 Aquatic Chronic 2 Calculation method H411

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.

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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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® CW 1302 GB

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

Use of the : Component used for the manufacture of electrical insulation

Substance/Mixture parts

1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe)BVBA

Address : Everslaan 45 3078 Everberg

Belgium

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

E-mail address of person

responsible for the SDS

: Global_Product_EHS_AdMat@huntsman.com

1.4 Emergency telephone number

Emergency telephone number : EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

ASIA: +65 6336-6011 China: +86 20 39377888 +86 532 83889090 India: + 91 22 42 87 5333 Australia: 1800 786 152

New Zealand: 0800 767 437 USA: +1/800/424.9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

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

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

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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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 : Prevention:

P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P391 Collect spillage.

Hazardous components which must be listed on the label:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

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

3-Aminopropyltriethoxysilane

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No.	Classification	Concent ration
	Index-No. Registration number		(% w/w)
2,2'-[(1-methylethylidene)bis(4,1-	1675-54-3	Skin Irrit. 2; H315	>= 25 -
phenyleneoxymethylene)]bisoxir	216-823-5	Eye Irrit. 2; H319	< 30
ane	603-073-00-2	Skin Sens. 1; H317	
	01-2119456619-26	Aquatic Chronic 2;	
		H411	
bisphenol A - epoxy resins,	25068-38-6	Skin Irrit. 2; H315	>= 0.1 -
number average MW >700 -	Polymer	Eye Irrit. 2; H319	< 1
<1100		Skin Sens. 1; H317	

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3-Aminopropyltriethoxysilane 919-30-2 Acute Tox. 4; H302 >= 0.1 - 213-048-4 Skin Corr. 1B; H314 < 1 Skin Sens. 1; H317

01-2119480479-24
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.

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.

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

None known.

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 : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

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5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

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

courses.

Hazardous combustion

products

: No data is available on the product itself.

5.3 Advice for firefighters

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Specific extinguishing

methods

: No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and

contaminated fire extinguishing water must be disposed of in

accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

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 : Do not breathe vapours or spray mist.

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

according to Regulation (EC) No. 1907/2006



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application area.

Dispose of rinse water in accordance with local and national

regulations.

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

used.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

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

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

resealed and kept upright to prevent leakage. Keep in properly

labelled containers.

Advice on common storage : For inc

: For incompatible materials please refer to Section 10 of this

SDS.

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
Kaolin	1332-58-7	TWA (Respirable dust)	2 mg/m3	GB EH40
Further information	fractions of air in accordance sampling and COSHH defin kind when pre 8-hour TWA of This means the above these leexposure to the control of t	rborne dust which will with the methods do gravimetric analysis ition of a substance lesent at a concentrat of inhalable dust or 4 hat any dust will be sevels. Some dusts hat ese must comply will be sevels will will will be sevels.	espirable dust and inhalable of the collected when sampling escribed in MDHS14/3 Generof respirable and inhalable of the collected and inhalable of the col	g is undertaken ral methods for dust, The dust of any than 10 mg.m-3 irable dust. re exposed VELs and t industrial

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and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,2'-[(1- methylethylidene)bis(4, 1- phenyleneoxymethylen e)]bisoxirane	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, Short-term exposure	0.75 mg/kg bw/day
	Consumers	Dermal	Systemic effects, Long-term exposure	3.571 mg/kg bw/day
	Consumers	Oral	Systemic effects, Long-term exposure	0.75 mg/kg bw/day

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

Substance name		Environmental Compartment	Value
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxira ne		Fresh water	0.006 mg/l
Remarks: Assessme		nt Factors	
		Marine water	0.0006 mg/l
Assessme		nt Factors	
		Freshwater - intermittent	0.018 mg/l
Assessme		nt Factors	

according to Regulation (EC) No. 1907/2006



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	Fresh water sediment	0.996 mg/kg
Equilibriun	n method	
	Marine sediment	0.0996 mg/kg
Equilibriun	n method	
	Soil	0.196 mg/kg
Equilibriun	n method	
	Sewage treatment plant	10 mg/l
Assessme	nt Factors	
	Secondary Poisoning	11 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : butyl-rubber

Break through time : > 8 h

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

Material : Neoprene gloves Break through time : 10 - 480 min

Remarks : 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

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

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

Appearance : paste

Colour : No data is available on the product itself.

according to Regulation (EC) No. 1907/2006



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Odour : slight

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

pH : No data is available on the product itself.

Melting point/freezing point : No data available

Boiling point : > 200 °C

Flash point : > 100 °C

Method: closed cup

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

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

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

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : 0.01 hPa (20 °C)

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

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

Density : 1.74 - 1.77 g/cm3 (20 °C)

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.

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

Decomposition temperature : > 200 °C

Viscosity

Viscosity, dynamic : 20,000 - 27,000 mPa.s (25 °C)

Method: ISO 3219

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

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

according to Regulation (EC) No. 1907/2006



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9.2 Other information

Molecular weight : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

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 : Strong acids and strong bases

Strong oxidizing agents

10.6 Hazardous decomposition products

Carbon oxides

Burning produces noxious and toxic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

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

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

3-Aminopropyltriethoxysilane:

Acute oral toxicity : LD50 (Rat, male and female): 1,491 - 2,688 mg/kg

Method: EPA OTS 798.1175

according to Regulation (EC) No. 1907/2006



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Components:

3-Aminopropyltriethoxysilane:

Acute inhalation toxicity : LC50 (Rat, male): > 5 ppm

> Exposure time: 6 h Test atmosphere: vapour

Method: OECD Test Guideline 403

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

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

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 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

3-Aminopropyltriethoxysilane:

Acute dermal toxicity : LD50 (Rabbit, male and female): 4,075 mg/kg

Method: Acute dermal toxicity

Assessment: The substance or mixture has no acute dermal

toxicity

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rabbit

Assessment: Mild skin irritant 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

3-Aminopropyltriethoxysilane:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Causes burns.

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Serious eye damage/eye irritation

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rabbit

Assessment: Mild eye irritant Method: OECD Test Guideline 405

Result: Irritating to eyes.

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

Species: Rabbit

Method: OECD Test Guideline 405

Result: Eye irritation

3-Aminopropyltriethoxysilane:

Species: Rabbit

Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Exposure routes: Skin Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429 Result: Causes sensitisation.

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.

3-Aminopropyltriethoxysilane:

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406

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

Assessment: No data available

Germ cell mutagenicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

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

Method: OECD Test Guideline 476

Result: positive

according to Regulation (EC) No. 1907/2006



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: Concentration: 0 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 471

Result: positive

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

3-Aminopropyltriethoxysilane:

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

Method: OECD Test Guideline 473

Result: negative

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

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

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

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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3-Aminopropyltriethoxysilane:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

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

Dose: 15 mg/kg

Frequency of Treatment: 7 days/week Method: OECD Test Guideline 453

Result: negative

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

Dose: 0.1 mg/kg

Frequency of Treatment: 3 days/week Method: OECD Test Guideline 453

Result: negative

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

Dose: 1 mg/kg

Frequency of Treatment: 5 days/week Method: OECD Test Guideline 453

Result: negative

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

Carcinogenicity - : No data available

Assessment

Reproductive toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

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Dose: >750 milligram per kilogram

General Toxicity - Parent: No-observed-effect level: 540

mg/kg body weight

General Toxicity F1: No-observed-effect level: 540 mg/kg

body weight

Symptoms: No adverse effects Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

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

Species: Rat, male and female

Application Route: Oral

General Toxicity - Parent: No-observed-effect level: 750

mg/kg body weight

General Toxicity F1: No-observed-effect level: 750 mg/kg

body weight

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Effects on foetal : Species: Rabbit, female development : Application Route: Dermal

General Toxicity Maternal: No observed adverse effect level:

30 mg/kg body weight Method: Other guidelines Result: No teratogenic effects

Species: Rabbit, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

60 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

180 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

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

Species: Rabbit, female Application Route: Dermal

General Toxicity Maternal: No observed adverse effect level:

30 mg/kg body weight Method: Other guidelines Result: No teratogenic effects

Species: Rabbit, female

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Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

60 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

180 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Reproductive toxicity -

Assessment

: No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rat, male and female

NOAEL: 50 mg/kg

Application Route: Ingestion

Exposure time: 14 WeeksNumber of exposures: 7 d

Method: Subchronic toxicity

Species: Rat, male and female

NOEL: 10 mg/kg

Application Route: Skin contact

Exposure time: 13 WeeksNumber of exposures: 5 d

Method: Subchronic toxicity

Species: Mouse, male NOAEL: 100 mg/kg

Application Route: Skin contact

Exposure time: 13 WeeksNumber of exposures: 3 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 WeeksNumber of exposures: 7 d

Method: Subchronic toxicity

Species: Rat, male and female

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NOEL: 10 mg/kg

Application Route: Skin contact

Exposure time: 13 WeeksNumber of exposures: 5 d

Method: Subchronic toxicity

3-Aminopropyltriethoxysilane: Species: Rat, male and female

NOAEL: 200 mg/kg

Application Route: Ingestion

Exposure time: 2,160 hMethod: Subchronic toxicity

Repeated dose toxicity -

Assessment

: No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

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SECTION 12: Ecological information

12.1 Toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.5 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)): 2.7 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 9.4 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

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

GLP: no

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

GLP: yes

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

mg/l

Exposure time: 72 h

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Method: OECD Test Guideline 201

GLP: no

3-Aminopropyltriethoxysilane:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 934 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)): 331 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 1,000

mg/l

Exposure time: 72 h
Test Type: static test

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to microorganisms : EC50 (Pseudomonas putida): 43 mg/l

Exposure time: 5.75 h Test Type: static test

Test substance: Fresh water

12.2 Persistence and degradability

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Biodegradability : Inoculum: Sewage (STP effluent)

Concentration: 20 mg/l

Result: Not readily 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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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)

9:Ha

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

3-Aminopropyltriethoxysilane:

Biodegradability : Inoculum: activated sludge

Concentration: 8.95 mg/l

Result: Not readily biodegradable.

Biodegradation: 67 % Exposure time: 28 d

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

12.3 Bioaccumulative potential

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

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

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

Bioaccumulation : Species: Fish

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

3-Aminopropyltriethoxysilane:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 3.4 Remarks: Does not bioaccumulate.

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Partition coefficient: n- : log Pow: 1.7 (20 °C)

octanol/water pH: 7

12.4 Mobility in soil

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Distribution among : Koc: 445

environmental compartments

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...

12.6 Other adverse effects

Product:

Additional ecological

information

: There is no data available for this product.

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

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and

national regulations.

Dispose of contents/ container to an approved waste disposal

plant.

Contaminated packaging : Empty remaining contents.

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

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SECTION 14: Transport information

IATA

14.1 UN number : UN 3082

14.2 UN proper shipping

name

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

(BISPHENOL A EPOXY RESIN) : 9

14.3 Transport hazard

class(es)

14.4 Packing group : 111

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction : 964

(passenger aircraft)

IMDG

14.1 UN number : UN 3082

14.2 UN proper shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

name N.O.S.

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard : 9

class(es)

14.4 Packing group Ш Labels 9

EmS Code : F-A, S-F

14.5 Environmental hazards

Marine pollutant : yes

ADR

14.1 UN number : UN 3082

14.2 UN proper shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

name N.O.S.

(BISPHENOL A EPOXY RESIN)

: 9

14.3 Transport hazard

class(es)

14.4 Packing group : 111 Labels : 9

14.5 Environmental hazards

Environmentally hazardous : yes

RID

14.1 UN number : UN 3082

14.2 UN proper shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

name N.O.S.

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard

class(es)

: 9

14.4 Packing group : 111 Labels 9

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14.5 Environmental hazards

Environmentally hazardous : yes

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High : This product does not contain

Concern for Authorisation (Article 59). substances of very high concern

(Regulation (EC) No

1907/2006 (REACH), Article 57).

: Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

REACH - List of substances subject to authorisation - : Not applicable

Future sunset date

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

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

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

NZIoC : Not 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

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

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

Inventories

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

15.2 Chemical safety assessment

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.

H314 : Causes severe skin burns and eye damage.

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

Acute Tox. : Acute toxicity

Aquatic Chronic : Chronic aquatic toxicity

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

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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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