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 : ARALDITE® CY 225

Unique Formula Identifier

(UFI)

: CH6F-4030-400K-X3UC

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) BV

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 : Centres Antipoison et de Toxicovigilance:

ANGERS: 02 41 48 21 21 BORDEAUX: 05 56 96 40 80 LILLE: 0 825 812 822 LYON: 04 72 11 69 11

MARSEILLE 04 91 75 25 25 NANCY: 03 83 32 36 36 PARIS: 01 40 05 48 48 RENNES: 02 99 59 22 22 STRASBOURG: 03 88 37 37 37 TOULOUSE: 05 61 77 74 47 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

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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.

Long-term (chronic) aquatic hazard,

Category 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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.

Prevention: Precautionary statements

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.

H411: Toxic to aquatic life with long lasting effects.

Response:

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

advice/ attention. P391 Collect spillage.

Hazardous components which must be listed on the label:

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

Additional Labelling

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concent ration (% w/w)
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxir ane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 specific concentration limit Skin Irrit. 2; H315 >= 5 % Eye Irrit. 2; H319 >= 5 %	>= 90 - <= 100
methanol	67-56-1 200-659-6 603-001-00-X 01-2119433307-44	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370 (Bladder, Blood, Central nervous system, Eyes, Kidney, Liver, Nervous system, spleen) specific concentration limit STOT SE 1; H370 >= 10 % STOT SE 2; H371 3 - < 10 %	>= 0,1 - < 1
tetramethylammonium chloride	75-57-0 200-880-8 -	Acute Tox. 2; H300 Acute Tox. 3; H311 Skin Irrit. 2; H315 STOT SE 1; H370 Aquatic Chronic 2; H411	>= 0,1 - < 0,25

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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.

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.

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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

Halogenated compounds

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.

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.

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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.

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.

Avoid breathing mist or vapours.

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.

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 - 18 °C

Further information on : Stable under normal conditions.

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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
methanol	67-56-1	TWA	200 ppm 260 mg/m3	2006/15/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			
		VME	200 ppm 260 mg/m3	FR VLE
	Further information: Risk of penetration through skin, Regulatory binding exposure limits			
		VLCT (VLE)	1 000 ppm 1 300 mg/m3	FR VLE
	Further information: Risk of penetration through skin, Indicative exposure limits			exposure

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- phenyleneoxymethyle ne)]bisoxirane	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
methanol	Workers	Dermal	Systemic effects, Long-term exposure	40 mg/kg bw/day
	Workers	Inhalation	Systemic effects, Long-term exposure	260 mg/m3
	Workers	Inhalation	Local effects, Long- term exposure	260 mg/m3
	Workers	Dermal	Systemic effects, Short-term exposure	40 mg/kg bw/day

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	Workers	Inhalation	Systemic effects, Short-term exposure	260 mg/m3
	Workers	Inhalation	Local effects, Short- term exposure	260 mg/m3
	Consumers	Dermal	Systemic effects, Long-term exposure	8 mg/kg bw/day
	Consumers	Inhalation	Systemic effects, Long-term exposure	50 mg/m3
	Consumers	Oral	Systemic effects, Long-term exposure	8 mg/kg bw/day
	Consumers	Inhalation	Local effects, Long- term exposure	50 mg/m3
	Consumers	Inhalation	Systemic effects, Short-term exposure	50 mg/m3
	Consumers	Inhalation	Local effects, Short- term exposure	50 mg/m3
	Consumers	Dermal	Systemic effects, Short-term exposure	8 mg/kg bw/day
	Consumers	Oral	Systemic effects, Short-term exposure	8 mg/kg bw/day
tetramethylammonium chloride	Workers	Inhalation	Long-term systemic effects	2,9 mg/m3
	Workers	Dermal	Long-term systemic effects	0,4 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,76 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,25 mg/kg
	Consumers	Oral	Long-term systemic effects	0,25 mg/kg

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
	Marine water	0,001 mg/l
	Fresh water sediment	0,341 mg/kg dry weight (d.w.)
	Marine sediment	0,034 mg/kg dry weight (d.w.)
	Soil	0,065 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Secondary Poisoning	11 mg/kg
methanol	Fresh water	154 mg/l
	Remarks: Assessment Factors	
	Marine water	15,4 mg/l
	Remarks: Assessment Factors	
	Freshwater - intermittent	1540 mg/l
	Remarks:Assessment Factors	
	Sediment	570,4 mg/kg
	Remarks:Equilibrium method	
	Secondary Poisoning	

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1	Sewage treatment plant	100 mg/l
	Remarks:Assessment Factors	
	Soil	23,5 mg/kg
	Remarks:Equilibrium method	
tetramethylammonium chloride	Fresh water	0,6 μg/l
	Remarks: Assessment Factors	
	Marine water	0,06 μg/l
	Remarks: Assessment Factors	
	Freshwater - intermittent	36 μg/l
	Remarks: Assessment Factors	
	Sewage treatment plant	6 mg/l
	Remarks: Assessment Factors	
	Fresh water sediment	0,0035 mg/kg
	Remarks:Equilibrium method	
	Marine sediment	0,0035 mg/kg
	Remarks:Equilibrium method	
	Soil	0,00001 mg/kg
	Remarks:Equilibrium method	

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 : The selected protective gloves have to satisfy the

specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. 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).

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

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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 organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : Clear

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 : > 200 °C

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 : ca. 135 °C

Method: Pensky-Martens closed cup, closed cup

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

Decomposition temperature : > 200 °C

pH : substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : 8 500 - 12 500 mPa.s (25 °C)

Solubility(ies)

Water solubility : practically insoluble (20 °C)

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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 : < 0,0001 hPa (20 °C)

Density : 1,17 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 : Strong acids

Strong bases

Strong oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

Hazardous decomposition : carbon dioxide products : carbon monoxide

Halogenated compounds

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.

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Product:

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

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

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

Method: Calculation method

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

Remarks: No mortality observed at this dose.

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

methanol:

Acute oral toxicity : LD50 (Rat): 5 628 mg/kg

Assessment: The component/mixture is toxic after single

ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): 128,2 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Other guidelines

Assessment: The component/mixture is toxic after short term

inhalation.

Acute dermal toxicity : LD50 (Rabbit): 15 800 mg/kg

Assessment: The component/mixture is toxic after single

contact with skin.

tetramethylammonium chloride:

Acute oral toxicity : LD50 (Rat, female): 1 146 mg/kg

Method: OECD Test Guideline 425

Assessment: The component/mixture is toxic after single

ingestion.

LD50 (Rat, male and female): 47 mg/kg Method: OECD Test Guideline 401

Assessment: The component/mixture is highly toxic after

single ingestion.

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LD50 (Rat, female): 55 mg/kg Method: OECD Test Guideline 425

Assessment: The component/mixture is toxic after single

ingestion.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 200 - < 500 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The component/mixture is toxic after single

contact with skin.

Skin corrosion/irritation

Causes skin irritation.

Components:

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

Species : Rabbit Exposure time : 4 h

Assessment : Irritating to skin.

Method : OECD Test Guideline 404

Result : Irritating to skin.

methanol:

Species : Rabbit

Assessment : No skin irritation
Method : Other guidelines
Result : No skin irritation

tetramethylammonium chloride:

Species : human skin

Method : OECD Test Guideline 439

Result : Irritating to skin.

GLP : yes

Species : Human

Method : OECD Test Guideline 431

Result : Non-corrosive

GLP : yes

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

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

Species : Rabbit

Assessment : Irritating to eyes.

Method : OECD Test Guideline 405

Result : Irritating to eyes.

methanol:

Species : Rabbit

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Result : No eye irritation

tetramethylammonium chloride:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes

Species : Bovine cornea Assessment : No eye irritation

Method : OECD Test Guideline 437

Result : No eye irritation

GLP : yes

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Components:

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

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.

methanol:

Exposure routes : Skin Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

tetramethylammonium chloride:

Test Type : Local lymph node assay (LLNA)

Exposure routes : Skin Species : Mouse

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 429

Result : Does not cause skin sensitisation.

GLP : yes

Germ cell mutagenicity

Not classified due to lack of data.

Components:

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

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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) Cell type: Somatic Application Route: Oral

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

Result: negative

methanol:

Genotoxicity in vitro : Concentration: 15.8 - 63.3 mg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Concentration: 5 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: ca 40 mg/ml Metabolic activation: negative

Result: negative

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Dose: 1920 - 4480 mg/kg

Method: OECD Test Guideline 474

Result: negative

tetramethylammonium chloride:

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: negative GLP: yes

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Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

Carcinogenicity

Not classified due to lack of data.

Components:

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

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)

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

Frequency of Treatment : 3 days/week

NOEL : 0,1 mg/kg body weight
Method : OECD Test Guideline 453

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

Species : Rat, female

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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 : 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

methanol:

Species : Rat, male and female

Application Route : Inhalation Exposure time : 24 month(s) Dose : $>= 1300 \text{ mg/m}^3$

Frequency of Treatment : 20 hour

Method : OECD Test Guideline 453

Result : negative

Species : Mouse, male and female

Application Route : Inhalation

Exposure time : 18 month(s)

Dose : 13 - 1300 mg/m³

Frequency of Treatment : 19 hour

Method : OECD Test Guideline 453

Result : negative

Reproductive toxicity

Not classified due to lack of data.

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

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

methanol:

Effects on fertility : Species: Rat, male and female

Application Route: Inhalation Method: OECD Test Guideline 416

Result: negative

Species: Monkey, female Application Route: Inhalation

Result: negative

Species: Mouse, male Application Route: Oral

Result: negative

Effects on foetal development

Species: Monkey

Application Route: Inhalation

General Toxicity Maternal: NOAEL: 2 390 mg/m³

Result: No teratogenic effects

tetramethylammonium chloride:

Effects on fertility : Test Type: Reproduction / Developmental Toxicity Screening

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Test

Species: Rat, male and female

Application Route: Oral

Dose: 0/1/5/20 milligram per kilogram Frequency of Treatment: 7 days/week

General Toxicity - Parent: NOAEL: >= 20 mg/kg body weight General Toxicity F1: NOAEL: >= 20 mg/kg body weight

Method: OECD Test Guideline 421

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

General Toxicity - Parent: NOAEL: 5 mg/kg body weight Remarks: Information given is based on data obtained from

similar substances.

Effects on foetal development

Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Application Route: Oral

General Toxicity Maternal: NOAEL: 20 mg/kg body weight Developmental Toxicity: NOAEL: 20 mg/kg body weight

Method: OECD Test Guideline 421 Result: No teratogenic effects

Remarks: Information given is based on data obtained from

similar substances.

STOT - single exposure

Not classified due to lack of data.

Components:

methanol:

Target Organs : Bladder, Blood, Central nervous system, Eyes, Kidney, Liver,

Nervous system, spleen

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

toxicant, single exposure, category 1.

tetramethylammonium chloride:

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

toxicant, single exposure, category 1.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

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

Species : Rat, male and female

NOAEL : 50 mg/kg
Application Route : oral (gavage)
Exposure time : 14 Weeks

Number of exposures : 7 d

Dose : 0, 50, 250, 1000 mg/kg/day

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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, male
NOAEL : 100 mg/kg
Application Route : Skin contact
Exposure time : 13 Weeks

Number of exposures : 3 d

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

methanol:

Species : Monkey
NOEC : 13 mg/m3
Test atmosphere : vapour
Exposure time : 5 040 h
Number of exposures : 21 h

Species : Monkey, male and female

NOEC : 6660 mg/m3
Application Route : Ingestion
Test atmosphere : vapour
Exposure time : 72 h
Number of exposures : 6 h

Method : OECD Test Guideline 412

Species : Monkey
NOEC : 1300 mg/m3
Test atmosphere : vapour
Exposure time : 1 440 h
Number of exposures : 21 h

Species : Monkey
LOEC : 3990 mg/m3
Test atmosphere : vapour
Exposure time : 480 h
Number of exposures : 21 h

tetramethylammonium chloride:

Species : Rat, male and female

NOAEL : 10 mg/kg Application Route : oral (gavage)

Exposure time : 90 d Number of exposures : 7 d/week

Dose : 0/3/10/30 mg/kg bw/day

Control Group : yes

Method : OECD Test Guideline 408

according to Regulation (EC) No. 1907/2006



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GLP : yes Target Organs : Liver

Aspiration toxicity

Not classified due to lack of data.

Components:

methanol:

May be harmful if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Components:

methanol:

Remarks : Solvents may degrease the skin.

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)): 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

according to Regulation (EC) No. 1907/2006



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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

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.

methanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15 400 mg/l

Exposure time: 96 h

Test Type: flow-through test Test substance: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10 000 mg/l

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

Method: DIN 38412

Toxicity to algae/aquatic

plants

ErC50 (Selenastrum capricornutum (green algae)): ca. 22 000

mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Toxicity to microorganisms : IC50 (activated sludge): > 1 000 mg/l

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

tetramethylammonium chloride:

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Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 462 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 (Daphnia magna (Water flea)): 3 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 96,3 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

Remarks: Information given is based on data obtained from

similar substances.

NOEC: 6,25 mg/l

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to microorganisms : EC50 (activated sludge): > 503 mg/l

Exposure time: 3 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 209

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 30 ugl Exposure time: 11 d

Species: Daphnia magna (Water flea)

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

Ecotoxicology Assessment

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

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

12.2 Persistence and degradability

Components:

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

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 20 mg/l

Result: Not readily biodegradable.

according to Regulation (EC) No. 1907/2006



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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

methanol:

Biodegradability : Inoculum: Marine water

Result: Readily biodegradable. Biodegradation: 69 - 97 % Exposure time: 5 - 20 d

Photodegradation : Test Type: Air

Rate constant: 0.0093

Degradation (direct photolysis): 50 %

tetramethylammonium chloride:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 90 mg/l Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

Remarks: Based on data from similar materials

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

methanol:

according to Regulation (EC) No. 1907/2006



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Bioaccumulation : Species: Leuciscus idus (Golden orfe)

Exposure time: 3 d

Bioconcentration factor (BCF): < 10 Test substance: Fresh water

Partition coefficient: n-

octanol/water

: log Pow: -0,77

tetramethylammonium chloride:

Partition coefficient: n- \circ : Pow: < 0,027 (20 °C) octanol/water \circ log Pow: < -1,6 (20 °C)

pH: 7

Method: OECD Test Guideline 107

GLP: yes

12.4 Mobility in soil

Components:

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

Distribution among : Koc: 445

environmental compartments

tetramethylammonium chloride:

Distribution among : Koc: 44

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 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher

12.7 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.

according to Regulation (EC) No. 1907/2006



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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

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

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN)

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

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard class(es)

Class Subsidiary risks

ADN : 9
ADR : 9
RID : 9
IMDG : 9
IATA : 9

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14.4 Packing group

ADN

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

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

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

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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

REACH - List of substances subject to authorisation (Annex XIV)

: Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

: This product does not contain substances of very high concern.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

4,4'-isopropylidenediphenol (Number on list 66, 30)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

ENVIRONMENTAL HAZARDS

Occupational Illnesses (R- : 51, 84

461-3, France)

or the : 4511, 4722

Installations classified for the protection of the environment (Environment Code R511-9)

Other regulations:

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

E2

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

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

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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

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

H225 : Highly flammable liquid and vapour.

H300 : Fatal if swallowed.
H301 : Toxic if swallowed.
H311 : Toxic in contact with skin.
H315 : Causes skin irritation.

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

H331 : Toxic if inhaled.

H370 : Causes damage to organs.

H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

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STOT SE : Specific target organ toxicity - single exposure 2006/15/EC : Europe. Indicative occupational exposure limit values

FR VLE : France. Occupational Exposure Limits

2006/15/EC / TWA : Limit Value - eight hours
FR VLE / VME : Time Weighted Average
FR VLE / VLCT (VLE) : Short Term Exposure Limit

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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