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

1.1 Product identifier

Trade name : RENLAM® LV 06

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

: Epoxy resin solution

Substance/Mixture

Recommended restrictions : For industrial use only.

on use

1.3 Details of the supplier of the safety data sheet

: Huntsman Advanced Materials (Europe) BV Company

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

Skin irritation, Category 2 H315: Causes skin irritation.

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

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

Long-term (chronic) aquatic hazard,

Category 2

H411: Toxic to aquatic life with long lasting effects.

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2.2 Label elements

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

Hazard pictograms :





Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : 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:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE)

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

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concent ration (% w/w)
Formaldehyde, oligomeric	-	Skin Irrit. 2; H315	>= 20 -
reaction products with 1-chloro-	-	Skin Sens. 1; H317	< 25
2,3-epoxypropane and phenol		Aquatic Chronic 2;	
(BPFDGE)		H411	

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bis-[4-(2,3-epoxipropoxi)phenyl]propane	1675-54-3 216-823-5 603-073-00-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 specific concentration limit Skin Irrit. 2; H315 >= 5 % Eye Irrit. 2; H319 >= 5 %	>= 10 - < 20	
Reaction products of hexane- 1,6-diol with 2- (chloromethyl)oxirane (1:2)	933999-84-9	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 2.5 - < 10	
Substances with a workplace exposure limit :				
silicon dioxide	7631-86-9		>= 1 - <	
	231-545-4		10	

For explanation of abbreviations see section 16.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

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

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

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

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

If inhaled : If inhaled, remove to fresh air.

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.

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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 : 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 Silicon oxides

Metal oxides

Carbon dioxide (CO2) Carbon monoxide

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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

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

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

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

product.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

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

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

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

Wash hands before breaks and at the end of workday.

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.

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

SDS.

Recommended storage

temperature

: 2 - 40 °C

Further information on

storage stability

: Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
calcium carbonate	471-34-1	TWA (inhalable dust)	10 mg/m3	GB EH40
		TWA (Respirable dust)	4 mg/m3	GB EH40
silicon dioxide	7631-86-9	TWA (inhalable dust)	6 mg/m3 (Silica)	GB EH40
		TWA (Respirable dust)	2.4 mg/m3 (Silica)	GB EH40
		TWA (Respirable dust)	0.1 mg/m3	2004/37/EC
Further information	Carcinogens or mutagens			
		TWA (Respirable fraction)	0.1 mg/m3 (Silica)	GB EH40
Further information	Capable of causing cancer and/or heritable genetic damage.			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
bis-[4-(2,3- epoxipropoxi)phenyl]p ropane	Workers	Inhalation	Long-term systemic effects	4.93 mg/m3
	Workers	Dermal	Long-term systemic effects	0.75 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.87 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.0893 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.5 mg/kg bw/day
Reaction products of hexane-1,6-diol with 2-	Workers	Inhalation	Long-term systemic effects	10.57 mg/m3

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(chloromethyl)oxirane (1:2)				
	Workers	Inhalation	Acute systemic effects	10.57 mg/m3
	Workers	Inhalation	Long-term local effects	0.44 mg/m3
	Workers	Dermal	Long-term systemic effects	6 mg/kg
	Workers	Dermal	Acute local effects	0.0226 mg/cm2
	Workers	Dermal	Long-term local effects	0.0226 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	5.29 mg/m3
	Consumers	Inhalation	Acute systemic effects	5.29 mg/m3
	Consumers	Inhalation	Long-term local effects	0.27 mg/m3
	Consumers	Dermal	Long-term systemic effects	3 mg/kg
	Consumers	Dermal	Acute systemic effects	1.7 mg/kg
	Consumers	Dermal	Long-term local effects	0.0136 mg/cm2
	Consumers	Dermal	Acute local effects	0.0136 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	1.5 mg/kg
	Consumers	Ingestion	Acute systemic effects	1.5 mg/kg
calcium carbonate	Workers	Inhalation	Long-term local effects	6.36 mg/m3
	Consumers	Inhalation	Long-term local effects	1.06 mg/m3
Formaldehyde, oligomeric reaction products with 1- chloro-2,3- epoxypropane and phenol (BPFDGE)	Workers	Dermal	Acute local effects	0.0083 mg/cm2
	Workers	Dermal	Long-term systemic effects	104.15 mg/kg
	Workers	Inhalation	Long-term systemic effects	29.39 mg/m3
	Consumers	Dermal	Long-term systemic effects	62.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8.7 mg/m3
	Consumers	Oral	Long-term systemic effects	6.25 mg/kg bw/day
silicon dioxide	Workers	Inhalation	Long-term systemic effects	4 mg/m3

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

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Substance name	Environmental Compartment	Value
bis-[4-(2,3-	Fresh water	0.006 mg/l
epoxipropoxi)phenyl]propane		
	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
Reaction products of hexane-1,6-	Fresh water	0.011 mg/l
diol with 2-(chloromethyl)oxirane (1:2)		
(1.2)	Marine water	0.001 mg/l
	Fresh water sediment	0.283 mg/kg
	Marine sediment	0.028 mg/kg
	Sewage treatment plant	1 mg/l
	Soil	0.223 mg/kg
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE)	Fresh water	0.003 mg/l
,	Remarks:Assessment Factors	·
	Marine water	0 mg/l
	Remarks: Assessment Factors	, ,
	Intermittent use/release	0.0254 mg/l
	Remarks: Assessment Factors	, ,
	Fresh water sediment	0.294 mg/kg dry
		weight (d.w.)
	Remarks:Equilibrium method	, ,
	Marine sediment	0.0294 mg/kg dry
		weight (d.w.)
	Remarks:Equilibrium method	, , ,
	Soil	0.237 mg/kg dry weight (d.w.)
	Remarks:Equilibrium method	110.g (a)
	Sewage treatment plant	10 mg/l
	Remarks: Assessment Factors	i io ilig/i
	nemains.Assessment Factors	

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

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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). 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.

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 : paste

Colour : grey

Odour : slight

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

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

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

Boiling point : > 200 °C

Flash point : $> 100 \, ^{\circ}\text{C}$

Method: closed cup

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

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flammability limit

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

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

Relative density : 1.1 (25 °C)

Density : 1.1 g/cm3 (25 °C)

Solubility(ies)

Water solubility : 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 : No data is available on the product itself.

Viscosity : No data is available on the product itself.

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

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Hazardous decomposition

products

: carbon dioxide carbon monoxide

Halogenated compounds

SECTION 11: Toxicological information

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

Acute toxicity

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

(BPFDGE):

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

Method: OECD Test Guideline 401

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

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

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

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral

toxicity

Remarks: No mortality observed at this dose.

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Acute oral toxicity : LD50 (Rat, male and female): 2,189 mg/kg

Method: OECD Test Guideline 401

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

silicon dioxide:

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

Method: OECD Test Guideline 401

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

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

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

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Skin corrosion/irritation

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

Species : Rabbit

Method : OECD Test Guideline 404

Result : Irritating to skin.

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

Species : Rabbit Exposure time : 4 h

Assessment : Irritating to skin.

Method : OECD Test Guideline 404

Result : Irritating to skin.

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Species : Rabbit

Assessment : Irritating to skin.

Method : OPPTS 870.2500

Result : Normally reversible injuries

silicon dioxide:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

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

Species : Rabbit

Assessment : Irritating to eyes.

Method : OECD Test Guideline 405

Result : Irritating to eyes.

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Species : Rabbit Assessment : Irritant

Method : OECD Test Guideline 405

Result : Irritating to eyes.

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silicon dioxide:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

Respiratory or skin sensitisation

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

Test Type : Local lymph node assay (LLNA)

Exposure routes : Skin Species : Mouse

Method : OECD Test Guideline 429

Result : May cause sensitisation by skin contact.

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

Test Type : Local lymph node assay (LLNA)

Exposure routes : Skin Species : Mouse

Method : OECD Test Guideline 429

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

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Exposure routes : Skin Species : Mouse

Method : OECD Test Guideline 429

Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

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

Method: OECD Test Guideline 471

Result: positive

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

Genotoxicity in vivo : Cell type: Somatic

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

Method: OECD Test Guideline 474

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Result: negative

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

Method: OECD Test Guideline 486

Result: negative

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

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

Test system: mouse lymphoma cells

Metabolic activation: without metabolic activation

Result: positive

Test Type: reverse mutation assay Test system: Salmonella typhimurium

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

mutation assay) Result: negative

Genotoxicity in vivo : Test Type: in vivo assay

Species: Mouse (male)

Cell type: Germ Application Route: Oral Dose: 3333, 10000 mg/kg

Result: negative

Test Type: gene mutation test

Species: Rat (male)
Cell type: Somatic
Application Route: Oral

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

Result: negative

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Genotoxicity in vitro : Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

Genotoxicity in vivo : Cell type: Somatic

Application Route: Oral Exposure time: 16 h Dose: 2000 mg/kg

Method: OECD Test Guideline 486

Result: negative

Cell type: Somatic Application Route: Oral Dose: 1000 mg/kg

Method: OECD Test Guideline 474

Result: negative

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silicon dioxide:

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

Method: OECD Test Guideline 473

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Application Route: Inhalation

Dose: 50 mg/m3 Result: negative

Carcinogenicity

Components:

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

Species : Rat, male Application Route : Oral

Exposure time : 24 month(s)

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

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

Method : OECD Test Guideline 453

Result : negative

Target Organs : Digestive organs

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

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 Application Route : Oral

Exposure time : 24 month(s)

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

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

Method : OECD Test Guideline 453

Result : negative

Target Organs : Digestive organs

Species : Rat, females

Application Route : Oral Exposure time : 24 month(s)

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

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

Method : OECD Test Guideline 453

Result : negative

Target Organs : Digestive organs

silicon dioxide:

Species : Rat, male and female

Application Route : Oral Exposure time : 103 weeks

Dose : 1800 - 3200 mg/kg

Frequency of Treatment : 7 daily

Method : OECD Test Guideline 453

Result : negative

Reproductive toxicity

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

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

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

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

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

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

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

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

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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.

Effects on foetal development

Species: Rabbit, female Application Route: Dermal

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

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

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

Method: Other guidelines Result: No teratogenic effects

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

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

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

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

Method: OECD Test Guideline 414 Result: No teratogenic effects

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

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

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

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

Method: OECD Test Guideline 414 Result: No teratogenic effects

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 422

Result: No effects on fertility and early embryonic

development were detected.

Effects on foetal : Species: Rat, male and female

development Application Route: Oral

General Toxicity Maternal: NOAEL: 200 mg/kg body weight

Method: OECD Test Guideline 422 Result: No teratogenic effects

silicon dioxide:

Effects on foetal : Species: Mouse

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development Application Route: Oral

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

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rabbit Application Route: Oral

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

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat

Application Route: Oral

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

Method: OECD Test Guideline 414 Result: No teratogenic effects

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

Species Rat, male and female

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

Number of exposures 7 d

Method Subchronic toxicity

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

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 **OECD Test Guideline 408** Method

Species Rat, male and female

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

Number of exposures : 5 d

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

Species Mouse, male NOAEL 100 mg/kg

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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

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Species : Rat, male and female NOEC : 200 mg/kg, 4.04 mg/m3

Application Route : Ingestion
Test atmosphere : vapour
Exposure time : 672 h
Number of exposures : 6 h

Method : OECD Test Guideline 412

silicon dioxide:

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

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

Number of exposures : 7 d

Method : OECD Test Guideline 413

Aspiration toxicity

No data available

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

No data available

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SECTION 12: Ecological information

12.1 Toxicity

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

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

Exposure time: 96 h

Test substance: Fresh water Method: Calculation method

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h

Method: Calculation method

Toxicity to algae/aquatic

plants

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

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

GLP: no

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

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

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 0.3 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test Analytical monitoring: no Test substance: Fresh water Method: OECD Test Guideline 211

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

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

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

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h Test Type: static test

Test substance: Fresh water
Method: OECD Test Guideline 202

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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.

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 30 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)): 47 mg/l

Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to microorganisms : IC50 : > 100 mg/l

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

silicon dioxide:

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

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

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aquatic invertebrates

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): >= 1,000 mg/l

Exposure time: 24 h

Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

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

mg/l

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

Method: OECD Test Guideline 201

12.2 Persistence and degradability

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

Biodegradability Test Type: aerobic

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

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

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

Biodegradability Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

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

pH: 4

Method: OECD Test Guideline 111

Remarks: Fresh water

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

pH: 9

Method: OECD Test Guideline 111

Remarks: Fresh water

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

pH: 7

Method: OECD Test Guideline 111

Remarks: Fresh water

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Biodegradability Inoculum: activated sludge

Concentration: 2 mg/l

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Result: Not biodegradable Biodegradation: ca. 47 % Exposure time: 28 d

Method: OECD Test Guideline 301D

12.3 Bioaccumulative potential

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

Bioaccumulation : Species: Fish

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

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

octanol/water Method: OECD Test Guideline 117

GLP: yes

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

Bioaccumulation : Bioconcentration factor (BCF): 31

Remarks: Does not bioaccumulate.

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

octanol/water pH: 7.1

Method: OECD Test Guideline 117

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Partition coefficient: n- : log Pow: 0.822 (20 °C)

octanol/water pH: 6 - 8

Method: OECD Test Guideline 107

12.4 Mobility in soil

Components:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

Distribution among : Koc: 4460

environmental compartments Method: OECD Test Guideline 121

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

Distribution among : Koc: 445

environmental compartments

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Distribution among : Koc: ca. 962

environmental compartments Method: OECD Test Guideline 121

12.5 Results of PBT and vPvB assessment

Product:

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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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

regional, national and international regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Contaminated packaging : Empty remaining contents.

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

SECTION 14: Transport information

14.1 UN number or ID number

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

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

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(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

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADR

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

RID

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

IMDG

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

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction : 964

(passenger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

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IMDG

Marine pollutant : yes(BISPHENOL F EPOXY RESIN, BISPHENOL A EPOXY

RESIN)

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

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

(Annex Aiv)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

: Not applicable

: This product does not contain substances of very high concern

(Regulation (EC) No

1907/2006 (REACH), Article 57).

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.

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

following entries should be

considered:

4,4'-isopropylidenediphenol (Number

on list 66, 30)

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great

Britain)

Not applicable

UK REACH List of substances subject to authorisation

(Annex XIV)

: Not applicable

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GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

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

: Not applicable

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

F2

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

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

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

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

ENCS : Not 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.

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SECTION 16: Other information

Full text of H-Statements

H315 : Causes skin irritation.

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

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

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

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

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers

from the risks related to exposure to carcinogens or mutagens

at work

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2004/37/EC / TWA : Long term exposure limit

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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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.

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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