according to Regulation (EC) No. 1907/2006



# **EPOCAST® 50-A1 US**

 Version
 Revision Date:
 SDS Number:
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 18.05.2022
 400001008922
 Date of first issue: 17.08.2015

Print Date 28.06.2022

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

#### 1.1 Product identifier

Trade name : EPOCAST® 50-A1 US

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

Use of the : Epoxy constituents

Substance/Mixture

# 1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (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 : Centres Antipoison et de Toxicovigilance:

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 3

ANGERS: 02 41 48 21 21

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

#### **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.

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

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

Reproductive toxicity, Category 2 H361: Suspected of damaging fertility or the

unborn child.

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

#### 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.

H361 Suspected of damaging fertility or the

unborn child.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:** 

P201 Obtain special instructions before use.
P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection/ hearing

protection.

Response:

P391 Collect spillage.

Hazardous components which must be listed on the label:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Phenol, polymer with formaldehyde, glycidyl ether tris(methylphenyl) phosphate

#### 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.

Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

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

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# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

## **Hazardous components**

Chemical name  2,2'-[(1-methylethylidene)bis(4,1-	CAS-No. EC-No. Index-No. Registration number 1675-54-3	Classification  Skin Irrit. 2; H315	Concent ration (% w/w) >= 30 -
phenyleneoxymethylene)]bisoxir ane	216-823-5 603-073-00-2 01-2119456619-26	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 %	< 50
Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4 Polymer	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 30 - < 50
Silsesquioxanes, Ph, hydroxy- terminated	181186-39-0 Polymer	Acute Tox. 4; H332	>= 10 - < 20
tris(methylphenyl) phosphate	1330-78-5 215-548-8	Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 10 - < 20
4-nonylphenol, branched	84852-15-3 284-325-5 601-053-00-8 01-2119510715-45	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Repr. 2; H361fd Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0,25 - < 1

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Acute toxicity estimate

Acute oral toxicity:
1 412 mg/kg

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.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

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

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

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

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

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

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

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 : Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

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

## 4.2 Most important symptoms and effects, both acute and delayed

None known.

#### 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.

#### 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.

#### 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.

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## **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. Observe label

precautions. Keep in properly labelled containers.

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

SDS.

Further information on

storage stability

: Stable under normal conditions.

Recommended storage

temperature

: 2 - 40 °C

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	Value
			effects	

according to Regulation (EC) No. 1907/2006



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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

## 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	Fresh water	0,006 mg/l
ne		
	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

## 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 : 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).

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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 : liquid

Colour : amber

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 : > 95 °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

flammability limit

: No data is available on the product itself.

Vapour pressure : < 1,5 hPa (20 °C)

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

Relative density : 1,21

Density : 1,2 g/cm3 (25 °C)

Solubility(ies)

Water solubility : partly soluble (20 °C)

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

Partition coefficient: n- : No data is available on the product itself.

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octanol/water

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

Decomposition temperature : > 200 °C

Viscosity

Viscosity, dynamic : 7 770 mPa.s (25 °C)

9.2 Other information

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

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

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

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

Molecular weight : 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 and strong bases

Strong oxidizing agents

# 10.6 Hazardous decomposition products

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** 

**Product:** 

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

Exposure time: 4 h
Test atmosphere: vapour
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

Phenol, polymer with formaldehyde, glycidyl ether:

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

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral

toxicity

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Silsesquioxanes, Ph, hydroxy-terminated:

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after

short term inhalation.

tris(methylphenyl) phosphate:

Acute oral toxicity : LD50 (Rat): > 20 000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 11,1 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 3 700 mg/kg

Assessment: The component/mixture is low toxic after single

contact with skin.

4-nonylphenol, branched:

Acute oral toxicity : LD50 (Rat, male and female): 1 412 mg/kg

Acute toxicity estimate: 1 412 mg/kg

Method: Calculation method

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Acute dermal toxicity : LD50 (Rabbit, male): 2 031 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

#### Skin corrosion/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.

#### Phenol, polymer with formaldehyde, glycidyl ether:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Irritating to skin.

# tris(methylphenyl) phosphate:

Species : Rabbit

Result : No skin irritation

# 4-nonylphenol, branched:

Species : Rabbit

Assessment : Causes burns. Result : Causes burns.

#### Serious eye damage/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.

#### Phenol, polymer with formaldehyde, glycidyl ether:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Irritating to eyes.

## tris(methylphenyl) phosphate:

Species : Rabbit

Result : No eye irritation

#### 4-nonylphenol, branched:

Result : Risk of serious damage to eyes.

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#### Respiratory or skin sensitisation

#### 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.

## Phenol, polymer with formaldehyde, glycidyl ether:

Exposure routes : Skin Species : Mouse

Method : OECD Test Guideline 429

Result : May cause sensitisation by skin contact.

#### tris(methylphenyl) phosphate:

Exposure routes : Skin Species : Mouse

Method : OECD Test Guideline 429

Result : Does not cause skin sensitisation.

#### 4-nonylphenol, branched:

Exposure routes : Skin Species : Guinea pig

Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

#### Germ cell mutagenicity

#### Components:

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

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

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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

# Phenol, polymer with formaldehyde, glycidyl ether:

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

Result: positive

Concentration: 0 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

Result: positive

Genotoxicity in vivo : Cell type: Germ

Application Route: Oral Result: negative

Cell type: Somatic Application Route: Oral Dose: 0 - 5000 mg/kg Result: negative

#### tris(methylphenyl) phosphate:

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

Result: negative

Germ cell mutagenicity-

Assessment

: In vitro tests did not show mutagenic effects

#### Carcinogenicity

## 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

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Method **OECD Test Guideline 453** 

Result negative

**Target Organs** Digestive organs

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

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

Frequency of Treatment 5 days/week

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

Result negative

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

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

Rat, females Species

**Application Route** Oral

Exposure time 24 month(s)

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

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

Method **OECD Test Guideline 453** 

Result negative

**Target Organs** Digestive organs

## Phenol, polymer with formaldehyde, glycidyl ether:

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

Species : Mouse, male Application Route : Dermal : 24 month(s) Exposure time Dose .1 mg/kg Frequency of Treatment 3 daily

Method **OECD Test Guideline 453** 

Result negative

**Species** Rat, female Dermal **Application Route** Exposure time 24 month(s) Dose 1 mg/kg

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Frequency of Treatment : 5 daily

Method : OECD Test Guideline 453

Result : negative

tris(methylphenyl) phosphate:

Carcinogenicity -

: Animal testing did not show any carcinogenic effects.

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

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.

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

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Method: OECD Test Guideline 414 Result: No teratogenic effects

Phenol, polymer with formaldehyde, glycidyl ether:

Effects on fertility Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

Effects on foetal development

Species: Rabbit, female Application Route: Dermal

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

Result: No teratogenic effects

Species: Rabbit, female Application Route: Oral

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

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat, female Application Route: Oral

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

Method: OECD Test Guideline 414 Result: No teratogenic effects

tris(methylphenyl) phosphate:

Effects on fertility Species: Rat, male and female

**Application Route: Oral** 

General Toxicity - Parent: LOAEL: 62,5 mg/kg body weight

Target Organs: Testes, Ovary Method: OECD Test Guideline 415

Result: positive

Effects on foetal

development

Species: Rat, female

Application Route: Oral

Dose: 20, 100, 400, 750 milligram per kilogram

General Toxicity Maternal: NOEL: 20 mg/kg body weight

Method: OPPTS 870.3700 Result: Teratogenic effects

Reproductive toxicity -

Assessment

Some evidence of adverse effects on sexual function and

fertility, and/or on development, based on animal experiments.

4-nonylphenol, branched:

Effects on foetal development

Species: Rat, female **Application Route: Oral** 

General Toxicity Maternal: NOAEL: 75 mg/kg body weight

Method: OECD Test Guideline 414

Result: No teratogenic effects

Reproductive toxicity -Suspected human reproductive toxicant

according to Regulation (EC) No. 1907/2006



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#### Assessment

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 : oral (gavage)
Exposure time : 14 Weeks

Number of exposures : 7 d

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

Species : Rat, male and female

NOAEL : >= 10 mg/kg
Application Route : Skin contact
Exposure time : 13 Weeks
Number of exposures : 5 d

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

Species : Mouse, 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

# Phenol, polymer with formaldehyde, glycidyl ether:

Species : Rat, male and female

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

Number of exposures : 7 d

Method : Subchronic toxicity

Species : Rat, male and female

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

Number of exposures : 5 d

Method : Subchronic toxicity

Species : Mouse, male NOAEL : 100 mg/kg
Application Route : Skin contact

according to Regulation (EC) No. 1907/2006



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13 Weeks Exposure time 3 d

Number of exposures

Method Subchronic toxicity

tris(methylphenyl) phosphate:

Species Rat, male and female

**NOEL** 1000 mg/kg Application Route Ingestion Exposure time 2 160 h

Method Subchronic toxicity

4-nonylphenol, branched:

Species Rat, male and female

NOAEL 100 mg/kg Application Route Ingestion Exposure time 672 h Number of exposures 7 d

Method Subacute toxicity

**Species** Rat, male and female

NOAEL 50 mg/kg Application Route Ingestion 2 160 h Exposure time 7 d Number of exposures

Method Subchronic toxicity

**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

according to Regulation (EC) No. 1907/2006



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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)): 2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1,8 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 : 11 mg/l Exposure time: 72 h

Test Type: static test

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

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.

# Phenol, polymer with formaldehyde, glycidyl ether:

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)): 1,7 mg/l

Exposure time: 48 h

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Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 2,7 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 9,4 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water

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

Exposure time: 3 h Test Type: static test

Test substance: Fresh water

Toxicity to fish (Chronic

toxicity)

GLP: yes

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

tris(methylphenyl) phosphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,6 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,146 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 : 0,4042 mg/l Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

M-Factor (Acute aquatic

toxicity)

: 1

Toxicity to microorganisms : EC50 (activated sludge): > 1 000 mg/l

Exposure time: 3 h

Toxicity to fish (Chronic

toxicity)

: NOEC: 0,01 mg/l

Exposure time: 28 d

Species: Other

according to Regulation (EC) No. 1907/2006



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Toxicity to daphnia and other : NOEC: 0,1 mg/l

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

M-Factor (Chronic aquatic

toxicity)

1

4-nonylphenol, branched:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): 0,128 mg/l

Exposure time: 96 h

Test Type: flow-through test Test substance: Fresh water Method: ASTM Method, other

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,209 mg/l

Exposure time: 96 h

Test Type: flow-through test Test substance: Fresh water Method: ASTM Method, other

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,221 mg/l

Exposure time: 96 h

Test Type: flow-through test Test substance: Fresh water Method: ASTM Method, other

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,085 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: ASTM Method, other

EC50 (Daphnia magna (Water flea)): 0,14 mg/l

Exposure time: 48 h

Test substance: Fresh water

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

Toxicity to algae/aquatic

plants

EbC50 (Desmodesmus subspicatus (green algae)): 1,3 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water

ErC50 (Selenastrum capricornutum (green algae)): 0,41 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: Algal Toxicity, Tiers I and II

M-Factor (Acute aquatic

toxicity)

10

Toxicity to microorganisms EC50 (activated sludge): 950 mg/l

Exposure time: 3 h

according to Regulation (EC) No. 1907/2006



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Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 209

Toxicity to fish (Chronic

toxicity)

: NOEC: 0,006 mg/l Exposure time: 91 d

Species: Oncorhynchus mykiss (rainbow trout)

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

M-Factor (Chronic aquatic

toxicity)

: 10

Toxicity to soil dwelling

organisms

EC10: 3,44 mg/kg Exposure time: 504 h

EC50: 906,7 mg/kg Exposure time: 4 Weeks

Species: Other

Test substance: Synthetic

Toxicity to terrestrial

organisms

EC10: 63,2 mg/kg Exposure time: 672 h Test substance: Synthetic

# 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.

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

#### Phenol, polymer with formaldehyde, glycidyl ether:

Biodegradability : Inoculum: Sewage (STP effluent)

according to Regulation (EC) No. 1907/2006



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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

## tris(methylphenyl) phosphate:

Biodegradability : Test Type: aerobic

Inoculum: Sewage (STP effluent)

Concentration: 100 mg/l Result: Readily biodegradable.

Biodegradation: 80 % Exposure time: 28 d

Method: OECD Test Guideline 301C

#### 4-nonylphenol, branched:

Biodegradability : Inoculum: activated sludge

Concentration: 13 mg/l

Result: Inherently biodegradable. Biodegradation: ca. 48,2 %

Exposure time: 35 d

Method: OECD Test Guideline 301B

Inoculum: Sediment Concentration: 2

Result: Inherently biodegradable.

Biodegradation: 100 % Exposure time: 63 - 84 d

Method: Anaerobic Biodegradability in the Subsurface

Inoculum: Marine water Concentration: 11 Biodegradation: 50 % Exposure time: 56 - 112 d

Method: OECD Test Guideline 309

according to Regulation (EC) No. 1907/2006



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## 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

Phenol, polymer with formaldehyde, glycidyl ether:

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

tris(methylphenyl) phosphate:

Partition coefficient: n-

octanol/water

log Pow: 5,93

4-nonylphenol, branched:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): 231 Remarks: Does not bioaccumulate.

Species: Pimephales promelas (fathead minnow)

Bioconcentration factor (BCF): 740 Remarks: Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: 5,4 (23 °C)

octanol/water pH: 5,7

Method: OECD Test Guideline 117

#### 12.4 Mobility in soil

## **Components:**

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

Distribution among : Koc: 445

environmental compartments

Phenol, polymer with formaldehyde, glycidyl ether:

Distribution among : Koc: 445

environmental compartments

tris(methylphenyl) phosphate:

Distribution among : Koc: 4,31

environmental compartments Method: OECD Test Guideline 121

according to Regulation (EC) No. 1907/2006



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4-nonylphenol, branched:

Distribution among

environmental compartments

: Koc: 23000 - 489000

#### 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 : This substance/mixture contains components considered to

have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU)

2017/2100.

#### **Components:**

## 4-nonylphenol, branched:

Assessment : The substance is considered to have endocrine disrupting

properties according to REACH Article 57(f) for the

environment.

#### 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.

according to Regulation (EC) No. 1907/2006



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## **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, EPOXY PHENOL NOVOLAC

RESIN)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN, EPOXY PHENOL NOVOLAC

RESIN)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN, EPOXY PHENOL NOVOLAC

RESIN)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN, EPOXY PHENOL NOVOLAC

RESIN)

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

(BISPHENOL A EPOXY RESIN, EPOXY PHENOL NOVOLAC

RESIN)

#### 14.3 Transport hazard class(es)

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

#### 14.4 Packing group

ADN

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

ADR

Packing group : III Classification Code : M6

according to Regulation (EC) No. 1907/2006



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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

# 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.

according to Regulation (EC) No. 1907/2006



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## **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 : Not applicable

(Annex XIV)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: 4-nonylphenol, branched

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

E2 ENVIRONMENTAL

**HAZARDS** 

Occupational Illnesses (R-

461-3, France)

: 51, 34, 4 bis, 84

Installations classified for the : 4511

protection of the environment (Environment Code R511-9)

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

AIIC : 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 : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

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

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

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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**

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

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

H332 : Harmful if inhaled.

H361 : Suspected of damaging fertility or the unborn child.

H361fd : Suspected of damaging fertility. Suspected of damaging the

unborn child.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.H411 : Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard

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

Eye Irrit. : Eye irritation

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

#### **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
Repr. 2	H361	Calculation method
Aquatic Chronic 2	H411	Calculation method

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