ADHESIVES.COM	Page: 1
SAFETY DATA SHEET	Revision Date: 16.09.2022
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824074	

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 758) as amended - SDSGHS\_GB

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

1.1 Product identifier

Trade name : PanelBond ADHESIVE

UFI: 9M91-50QE-R00D-KG6M

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

Recommended use : Adhesives

1.3 Details of the supplier of the safety data sheet	1.4 Emergency telephone number 01159 33 33 21
Wayside Adhesives Ltd	01109 33 33 21
23 Main Road	
Radcliffe on Trent	
Nottingham NG12 2BE	
NG12 ZBE	
Tel: 01159 33 33 21	
1.6. @	
info@waysideadhesives.com	

## **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.

Specific target organ toxicity - repeated H373: May cause damage to organs through

exposure, Category 2 prolonged or repeated exposure

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Long-term (chronic) aquatic hazard, Category 2

H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or

repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

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

label at hand.

P102 Keep out of reach of children.

Prevention:

P260 Do not breathe mist or vapours.P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

## Hazardous components which must be listed on the label:

bis-[4-(2,3-epoxipropoxi)phenyl]propane 1,4-bis[(2,3-Epoxypropoxy)ethyl]cyclohexan e

## **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.

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

## 3.2 Mixtures

## Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26- xxxx	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 ——————————————————————————————————	>= 50 - < 60
1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane	14228-73-0 238-098-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 10 - < 15
[3-(2,3- epoxypropoxy)propyl]trimethoxysilan e	2530-83-8 219-784-2 01-2119513212-58- XXXX	Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2,5
cristobalite	14464-46-1 238-455-4 Exempt	STOT RE 1; H372 (Respiratory system, Kidney)	>= 0,1 - < 0,5
Substances with a workplace exposure limit :			
Silica, vitreous	60676-86-0 262-373-8		>= 15 - < 25

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Call a POISON ČENTRE or doctor/physician if exposed or

you feel unwell.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice

If symptoms persist, call a physician.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

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

Remove contact lenses. Protect unharmed eye.

If swallowed : Obtain medical attention.

Do not give milk or alcoholic beverages.

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

Symptoms : The most important known symptoms and effects are

described in the labelling (see Section 2.2) and/or Section 11.

Risks : Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause cancer.

May cause damage to organs through prolonged or repeated

exposure.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the

point of release.

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

courses.

Hazardous combustion

products

Carbon dioxide (CO2)
Carbon monoxide

Hydrocarbons phenols Formaldehyde Methanol Silicon oxides

### 5.3 Advice for firefighters

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

Further information : 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.

Ensure adequate ventilation.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Comply with all applicable federal, state, and local regulations.

## 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 further information see Section 8 and Section 13 of the safety data sheet.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.

Do not smoke.

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

used.

Container hazardous when empty.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

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 : Wash hands before breaks and at the end of workday. When

using do not eat or drink. When using do not smoke.

### 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.

Further information on

storage stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Silica, vitreous	60676-86-0	TWA (Respirable dust)	0,08 mg/m3 Respirable dust	GB EH40
cristobalite	14464-46-1	TWA (Respirable fraction)	0,1 mg/m3 Respirable fraction (Silica)	GB EH40

# 8.2 Exposure controls

## **Engineering measures**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

## Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for

exposure of the eyes to liquid, vapor or mist.

Hand protection

Material : butyl-rubber
Break through time : 480 min
Glove thickness : > 0,5 mm

Remarks : The exact break through time can be obtained from the

protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:

Impervious clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter within the capabilities of the respirator/filter

combination.

Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear

a positive-pressure supplied-air respirator.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance : viscous

liquid

Colour : black

Odour : mild

Odour Threshold : No data available

No data available рΗ

Melting point/freezing point : not determined

Boiling point/boiling range : > 150 °C

> 99 °C Flash point

Method: Seta closed cup

Evaporation rate not determined

Upper explosion limit / Upper

flammability limit

Upper explosion limit

not determined

Lower explosion limit / Lower : Lower explosion limit

flammability limit

not determined

Vapour pressure : < 0,1 hPa (20 °C)

Relative vapour density : not determined

Relative density 1,089 (20 °C)

1,089 g/cm3 (20 °C) Density

Solubility(ies)

Water solubility insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

not determined

Decomposition temperature No data available

Viscosity

Viscosity, dynamic not determined

Viscosity, kinematic > 10000 mm2/s (40 °C)

Oxidizing properties Not applicable

## 9.2 Other information

Self-ignition : not determined

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No decomposition if stored and applied as directed.

## 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

#### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat, flame, sparks and other ignition

sources.

Exposure to air.
Exposure to moisture

#### 10.5 Incompatible materials

Materials to avoid : Acids

Amines Bases fluorides

Oxidizing agents peroxides

water

## 10.6 Hazardous decomposition products

Hazardous decomposition

products

Carbon monoxide

Carbon dioxide (CO2)

Hydrocarbons Acetone

hydrogen bromide

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Information on likely routes of : Inhalation

exposure Skin contact

Eye contact Ingestion

## **Acute toxicity**

Not classified based on available information.

### Components:

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

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 420

Assessment: No adverse effect has been observed in acute

oral toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

## Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Acute oral toxicity : LD50 (Rat): 8.025 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 4.250 mg/kg

### Skin corrosion/irritation

Causes skin irritation.

#### **Product:**

Remarks: May cause skin irritation and/or dermatitis.

#### Components:

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

Result: Slight, transient irritation

1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane

Result: Irritating to skin.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Result: Slight, transient irritation

cristobalite

Result: Slight, transient irritation

Silica, vitreous

Result: Slight, transient irritation

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### **Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

## Components:

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

Result: Slight, transient irritation

1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane

Result: Irritating to eyes.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Result: Irreversible effects on the eve

cristobalite

Result: Slight, transient irritation

Silica, vitreous

Result: Slight, transient irritation

#### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Product:

Remarks: May cause allergic skin reaction.

## **Components:**

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

Test Type: Local lymph node assay

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

Method: OECD Test Guideline 429

1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane

Assessment: May cause sensitisation by skin contact.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

## Germ cell mutagenicity

Not classified based on available information.

#### Components:

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

Genotoxicity in vitro : Test Type: in vitro assay

Test species: Rodent cell line

Metabolic activation: without metabolic activation

Result: positive

: Test Type: in vitro assay Test species: Rodent cell line

Metabolic activation: with metabolic activation

Result: negative

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo : Test Type: in vivo assay

Test species: Mouse (male)
Application Route: Ingestion

Result: negative

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

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

mutation assay) Result: positive

: Test species: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

: Test species: Chinese hamster ovary cells

Method: OECD Test Guideline 479

Result: positive

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Test species: Mouse (male and female)

Cell type: Bone marrow

Application Route: Intraperitoneal Method: OECD Test Guideline 474

Result: positive

## Carcinogenicity

May cause cancer.

## Components:

cristobalite

Carcinogenicity - : Human carcinogen.

Assessment

## Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

## Components:

cristobalite

Exposure routes: inhalation (dust/mist/fume)
Target Organs: Respiratory system, Kidney

Assessment: Causes damage to organs through prolonged or repeated exposure.

#### **Aspiration toxicity**

Not classified based on available information.

### **Product:**

No aspiration toxicity classification

## **Further information**

#### **Product:**

Remarks: No data available

### Components:

cristobalite

Remarks: Lung

Silica, vitreous Remarks: Lung

# **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)): 2,7 mg/l

Exposure time: 96 h Test Type: semi-static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2,8 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 4,2

mg/l

Exposure time: 72 h

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

Method: OECD Test Guideline 211

**Ecotoxicology Assessment** 

Short-term (acute) aquatic

hazard

: Acute aquatic toxicity Category 2; Toxic to aquatic life.

Long-term (chronic) aquatic

hazard

: Chronic aquatic toxicity Category 2; Toxic to aquatic life with

long lasting effects.

1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane

**Ecotoxicology Assessment** 

Long-term (chronic) aquatic

: Harmful to aquatic life with long lasting effects.

hazard

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 55 mg/l

Exposure time: 96 h Test Type: semi-static test

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 324 mg/l

aquatic invertebrates Exposure time: 48 h

Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 350

mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other : NOEC: 100 mg/l

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d

Species: Daphnia (water flea)

## 12.2 Persistence and degradability

#### **Components:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Biodegradability : Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Biodegradation: 82 % Exposure time: 28 d

Method: Abiotic degradation

Physico-chemical

removability

: Remarks: The product can be degraded by abiotic (e.g.

chemical or photolytic) processes.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Biodegradability : Test Type: aerobic

Result: Not readily biodegradable.

Biodegradation: 37 % Exposure time: 28 d

GLP: yes

#### 12.3 Bioaccumulative potential

### Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Partition coefficient: n- : log Pow: Estimated 0,5 (20 °C)

octanol/water

## 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

#### 12.6 Other adverse effects

### **Product:**

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with

long lasting effects.

## **Components:**

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

information

Additional ecological : Toxic to aquatic life with long lasting effects.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

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

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

## **SECTION 14: Transport information**

## **SECTION 14: Transport information**

#### 14.1 UN number

**ADN**: UN3082 **ADR**: UN3082

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN3082
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN3082

INTERNATIONAL MARITIME DANGEROUS GOODS: UN3082

**RID:** UN3082

#### 14.2 UN proper shipping name

ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A-

EPICHLOROHYDRIN POLYMER)

ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A-

EPICHLOROHYDRIN POLYMER)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Environmentally hazardous substance,

liquid, n.o.s. (BISPHENOL A-EPICHLOROHYDRIN POLYMER)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Environmentally hazardous

substance, liquid, n.o.s. (BISPHENOL A-EPICHLOROHYDRIN POLYMER)

INTERNATIONAL MARITIME DANGEROUS GOODS: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A-EPICHLOROHYDRIN POLYMER)

RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A-

EPICHLOROHYDRIN POLYMER)

### 14.3 Transport hazard class(es)

**ADN**: 9 **ADR**: 9

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: 9
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 9

**INTERNATIONAL MARITIME DANGEROUS GOODS: 9** 

**RID**: 9

#### 14.4 Packing group

ADN: III ADR: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: |||
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: |||

### INTERNATIONAL MARITIME DANGEROUS GOODS: III

RID: III

#### 14.5 Environmental hazards

**ADN:** Environmentally hazardous **ADR:** Environmentally hazardous

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Environmentally hazardous INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Environmentally hazardous

INTERNATIONAL MARITIME DANGEROUS GOODS: Environmentally hazardous

RID: Environmentally hazardous

## 14.6 Special precautions for user

Not applicable

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable Hazard code(s): Not applicable Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## **SECTION 15: Regulatory information**

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

UK REACH List of substances subject to authorisation : Not applicable (Annex XIV)

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

TCSI : Not in compliance with the inventory

TSCA All substances listed as active on the TSCA inventory

AIIC On the inventory, or in compliance with the inventory

DSL All components of this product are on the Canadian DSL

ENCS Not in compliance with the inventory

ISHL 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

NZIoC Not in compliance with the inventory

#### **Inventories**

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

## 15.2 Chemical safety assessment

No data available

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H315 : Causes skin irritation.

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

H372 : Causes damage to organs through prolonged or repeated

exposure if inhaled.

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 Dam. : Serious eye damage

Eye Irrit. : Eye irritation Skin Irrit. : Skin irritation

Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT -Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

Sources of key data used to compile the Safety Data

Sheet

Internal data including own and sponsored test reports
European Union Law with content from the Official Journal of

the European Union.

European Chemicals Agency; the EU authority implementing

the EU's chemicals legislation for companies.

The German Water Hazard Classes.

ReachCentrum; a series of support services to help comply with REACH regulations.

The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law.

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport. Cefic, the European Chemical Industry Council.

ESIS European Chemical Substances Information System

## 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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