

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Product name : SuperCast
Revision date : 04.08.2026
Print date :

Version : 1.0.0
Vouch-No. : 0000018352

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

1.1 Product identifier

SuperCast Clear Artwork Resin (RESIN COMPONENT)

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

Relevant identified uses

Artwork coating and pigmenting applications.

1.3 Details of the supplier of the safety data sheet

Supplier

Eli-Chem Resins U.K Ltd

Street : Unit 212 Dunsfold Park

Postal code/City : GU6 8GA Cranleigh, United Kingdom

Telephone : +44 1483 266636

Email : sales@elichem.co.uk

1.4 Emergency telephone number

+44 1483 266636 available during office hours: from 9am to 5pm

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

BIS-[4-(2,3-EPOXIPOPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1- PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-{ 2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY} METHYL)OXIRANE AND [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391 Collect spillage.
Special rules for supplemental label elements for certain mixtures
EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

BIS-[4-(2,3-EPOXIPOPOXI)PHENYL]PROPANE ; REACH No. : 01-2119456619-26-xxxx ; EC No. : 216-823-5; CAS No. : 1675-54-3

Weight fraction : $\geq 50 - < 75 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

Specific Conc. Limits : Eye Irrit. 2 ; H319: C $\geq 5 \%$ • Skin Irrit. 2 ; H315: C $\geq 5 \%$

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1- PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-({ 2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY} METHYL)OXIRANE AND [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE ; REACH No. : 01-2119454392-40-xxxx ; EC No. : 701-263-0

Weight fraction : $\geq 10 - < 25 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

1,2,3-PROPANETRIOL, GLYCIDYL ETHERS ; REACH No. : Polymer ; EC No. : 292-011-4; CAS No. : 90529-77-4

Weight fraction : $\geq 3 - < 10 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing immediately. Wash thoroughly the body (shower or bath). Remove affected person from the danger area and lay down. Transport affected person in lying position, in case of

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shortness of breath in half-sitting position. Put victim at rest, cover with a blanket and keep warm. Do not leave affected person unattended.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician. In case of skin irritation, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes and skin.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Extinguishing powder alcohol resistant foam Water spray jet Water

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2) Hydrogen chloride (HCl)

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

For emergency responders

Use personal protection equipment. Provide adequate ventilation. Remove persons to safety. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment

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Cover drains. Stop leak if safe to do so. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal.

For cleaning up

Collect in closed and suitable containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

It is recommended to design all work processes always so that the following is excluded: Inhalation of vapours or spray/mists Skin contact Eye contact
Wear personal protection equipment (refer to section 8). If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Environmental precautions

Shafts and sewers must be protected from entry of the product. Provide for retaining containers, e.g. floor pan without outflow.

Advices on general occupational hygiene

Working places should be designed to allow cleaning at any time. Floors, walls and other surfaces in the hazard area must be cleaned regularly. After use replace the closing cap immediately. Wash hands and face before breaks and after work and take a shower if necessary. Wash hands before eating, drinking or smoking. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Only use containers specifically approved for the substance/product. Protect containers against damage. Keep container tightly closed and in a well-ventilated place.

Packaging materials

Unsuitable container/equipment material: Copper Alloy, containing copper

Hints on joint storage

Storage class (TRGS 510) : 10

Keep away from

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Appropriate engineering controls

Provide for sufficient ventilation. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Eye/face protection

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Suitable eye protection

Eye glasses with side protection
DIN-/EN-Norms : EN 166
Provide eye shower and label its location conspicuously

Skin protection

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : NBR (Nitrile rubber) PVC (polyvinyl chloride) CR (polychloroprene, chloroprene rubber) Butyl caoutchouc (butyl rubber) FKM (fluoro rubber)

Wearing time with occasional contact (splashes) : > 10 min

Wearing time with permanent contact : > 480 min

Remark : When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Breakthrough times and swelling properties of the material must be taken into consideration.

Tested protective gloves must be worn

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

DIN-/EN-Norms : EN ISO 374

Body protection

Suitable protective clothing

Remark :

DIN-/EN-Norms

Protective clothing. : EN 14605

footwear : EN ISO 20345

Breakthrough times and swelling properties of the material must be taken into consideration.

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

Usually no personal respiratory protection necessary. Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation insufficient exhaust

Suitable respiratory protection apparatus

Combination filtering device Filter type: A

Remark

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

General information

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash contaminated clothing immediately. Wash hands before breaks and after work. Emergency shower installed

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : light yellow

Odour : characteristic

Safety characteristics

Freezing point :	(1013 hPa)		No data available
Initial boiling point and boiling range :	(1013 hPa)	>	200 °C
Decomposition temperature :	(1013 hPa)		No data available
Flash point :		>	100 °C
Auto-ignition temperature :			No data available
Lower explosion limit :			No data available

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Upper explosion limit :		No data available	
Vapour pressure :	(50 °C)	not determined	
Density :	(25 °C)	approx. 1,15	g/cm ³
Relative density :	(20 °C)	No data available	
Water solubility :	(20 °C)	No data available	
pH :		No data available	
log P O/W :		No data available	
Flow time :	(20 °C)	No data available	DIN-cup 4 mm
Viscosity :	(25 °C)	approx. 2900	mPa*s
Odour threshold :		No data available	
Relative vapour density :	(20 °C)	No data available	
VOC-value :		0	g/l
Maximum VOC content (EC) :		0	g/l
Flammable solids :	Not applicable.		
Flammable gases :	Not applicable.		

9.2 Other information

practically insoluble : Water

Other safety characteristics

Evaporation rate

No data available

Miscibility

No data available

Conductivity

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is stable under storage at normal ambient temperatures.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

Violent reaction with: Amines. Acid

10.4 Conditions to avoid

Keep away from heat.

10.5 Incompatible materials

Oxidising agent, strong. Strong acid Amines.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Acute toxicity

Acute oral toxicity

Parameter :	LD50 (BIS-[4-(2,3-EPOXI PROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 15000 mg/kg
Parameter :	LD50 (REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-{ 2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY} METHYL]OXIRANE AND [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE)
Exposure route :	Oral

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Species : Rat
Effective dose : > 5000 mg/kg
Parameter : LD50 (1,2,3-PROPANETRIOL, GLYCIDYL ETHERS ; CAS No. : 90529-77-4)
Exposure route : Oral
Species : Rat
Effective dose : > 5000 mg/kg

Acute dermal toxicity

Parameter : LD50 (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Exposure route : Dermal
Species : Rabbit
Effective dose : 23000 mg/kg
Parameter : LD50 (REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-({ 2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY} METHYL)OXIRANE AND [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg

Corrosion

Product characteristics : Irritating to eyes and skin.

Skin corrosion/irritation

Product characteristics : Irritating to skin.

Serious eye damage/eye irritation

Product characteristics : Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation

Product characteristics : May cause an allergic skin reaction.

Sensitisation to the respiratory tract

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Overall assessment on CMR properties

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 2 mg/l

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Exposure time : 96 h
Parameter : EC50 (REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-({ 2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY} METHYL)OXIRANE AND [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE)
Species : Leuciscus idus (golden orfe)
Effective dose : 2,54 mg/l
Exposure time : 96 h

Acute (short-term) toxicity to crustacea

Parameter : EC50 (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Species : Daphnia magna (Big water flea)
Effective dose : 1,8 mg/l
Exposure time : 48 h
Parameter : EC50 (REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-({ 2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY} METHYL)OXIRANE AND [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE)
Species : Daphnia magna (Big water flea)
Effective dose : 2,55 mg/l
Exposure time : 48 h

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Species : Daphnia magna (Big water flea)
Effective dose : 0,55 mg/l
Exposure time : 21 day(s)

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Species : Selenastrum capricornutum
Effective dose : 11 mg/l
Exposure time : 72 h
Parameter : EC50 (REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-({ 2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY} METHYL)OXIRANE AND [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE)
Species : Algae
Effective dose : 1,8 mg/l
Exposure time : 72 h

Toxicity to microorganisms

Parameter : EC50 (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Effective dose : > 42,6 mg/l
Exposure time : 8 h

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Degradation rate : 12 %
Test duration : 28 day(s)
Evaluation : Not readily biodegradable (according to OECD criteria)
Method : OECD 302B

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Value : 100 - 3000
Parameter : Partition coefficient n-octanol/water (log value) (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Value : 3,242

12.4 Mobility in soil

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Adsorption

Parameter : Mobility in soil (BIS-[4-(2,3-EPOXIPOPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Effective dose : 500 - 2000 pOC

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of waste according to applicable legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
Collect the waste separately. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number or ID number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 9

Classification code : M6

Hazard identification number (Kemler No.) : 90

Tunnel restriction code : -

Special Provisions : LQ 5 I · E 1 · ADR : - (SP 375 <= 5 l/kg)

Hazard label(s) : 9 / N

Sea transport (IMDG)

Class(es) : 9

EmS-No. : F-A / S-F

Special Provisions : LQ 5 I · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)

Hazard label(s) : 9 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 9

Special Provisions : E 1 · IATA : - (SP A197 <= 5 l/kg)

Hazard label(s) : 9 / N

14.4 Packing group

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14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Authorisations

not applicable

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 75

Other regulations (EU)

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: : None

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

E2 Hazardous to the aquatic environment in Category Chronic 2

Labelling for contents according to regulation (EC) No. 648/2004

not applicable

National regulations

Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

15.2 Chemical Safety Assessment

Mixture: This information is not available.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) ADR : European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route) AICS : Australian, Inventory of Chemical Substances ATE : Acute Toxicity Estimation BCF : Bio-concentration factor BOD : Biochemical oxygen demand Bw : Body weight CAS : Chemical Abstract Service CLP : Classification, labelling and Packaging CMR : Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction CSA : Chemical Safety Assessment CSR : Chemical Safety Report DIN : German Standards Institute / German industrial norm (Deutsches Institut für Normung / Deutsche Industrienorm) DNEL : Derived No Effect Level DSL : Canada, Domestic Substances List EC50 : Effective Concentration 50% EINECS : European Inventory of Existing Commercial Chemical Substances ELINCS : European List of Notified Chemical Substances IARC : International Agency for Research on Cancer IATA : International Air Transport Association IBC : Intermediate Bulk Container IECSC : Inventory of Existing Chemical Substances in China IMDG Code : International Maritime Dangerous Goods Code IMO : International Maritime Organization ISO : International Standards Organisation IUCLID : International Uniform Chemical Information Database IUPAC : International Union for Pure Applied Chemistry KECI : Korea, Existing Chemical Inventory LC50 : Lethal Concentration 50% LD50 : Lethal Dose 50% LEV : Local exhaust ventilation LOAEL : Lowest Observed

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Adverse Effect Level OEL : Lowest observable effect level MAK : Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG) NDSL : Canada, Non-Domestic Substances List NIOSH : National Institute for Occupational Safety & Health NOAEC : No Observed Adverse Effect Concentration NOAEL : No observed adverse effect level NOEC : No Observed Effect Concentration NOEL : No Observed Effect Level NZIoC : New Zealand Inventory of Chemicals OECD : Organization for Economic Cooperation and Development OEL : Occupational Exposure Limit PBT : persistent, bioaccumulative, toxic PIC : Prior Informed Consent PICCS : Philipines Inventory of Commercial Chemical Substances PNEC : Predicted No Effect Concentration RID : Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer) QSAR : Quantitative Structure Activity Relation STP : Sewage treatment plant SVHC : Substance of Very High Concern TLV : Threshold Limit Value TSCA : Toxic Substance Control Act TWA : Time Weighted Average UVCB : Unknown or Variable Composition, Complex Reaction Products, and Biological Materials VOC : Volatile organic compounds vPvB : very persistent, very bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Calculation method.

16.5 Relevant H- and EUH-phrases (Number and full text)

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.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.