

Safety Data Sheet

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



Trade name : SYNTECH PAVISTRONG Comp. A
Revision date : 24.09.2020
Print date : 01.10.2020

Version : 1.0.0

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

1.1 Product identifier

SYNTECH PAVISTRONG Comp. A

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

Relevant identified uses

Preparation for building and construction: Two-component epoxy coating resistant. Component A

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

AZICHEM Srl

Street : Via G. Gentile16/A

Postal code/city : 46044 Goito (MN)

Telephone : +390376604185/604365

Telefax : +39 0376 604398

Information contact : info@azichem.com

1.4 Emergency telephone number

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (24h)

Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma) Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

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

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

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

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-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3

OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS ; CAS No. : 68609-97-2

RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5

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MALEIC ANHYDRIDE ; CAS No. : 108-31-6
FATTY ACIDS, C14-18 & C16-18-UNSATD., 2-PHENOXYETHYL ESTERS, MALEATED ; CAS No. : 91001-64-8

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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local regulation

Special rules for supplemental label elements for certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

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

Weight fraction : $\geq 30 - < 50$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVIS ; REACH registration No. : 01 2119485289-22 ; EC No. : 271-846-8; CAS No. : 68609-97-2

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317

RESINS, BISPHENOL F-EPICHLOROHYDRIN ; REACH registration No. : 01-2119454392-40 ; EC No. : 500-006-8; CAS No. : 9003-36-5

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

MALEIC ANHYDRIDE ; REACH registration No. : 01-2119472428-31 ; EC No. : 203-571-6; CAS No. : 108-31-6

Weight fraction : $\geq 0,1 - < 0,5$ %
Classification 1272/2008 [CLP] : Resp. Sens. 1 ; H334 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317

FATTY ACIDS, C14-18 & C16-18-UNSATD., 2-PHENOXYETHYL ESTERS, MALEATED ; REACH registration No. : 01-2120057275-56 ; EC No. : 292-835-4; CAS No. : 91001-64-8

Weight fraction : $\geq 0,1 - < 0,5$ %
Classification 1272/2008 [CLP] : Skin Sens. 1A ; H317 Eye Irrit. 2 ; H319

Additional information

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

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4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove victim out of the danger area. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

In case of skin contact

Wash immediately with: Water Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician. In case of skin reactions, consult a physician.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Never give anything by mouth to an unconscious person or a person with cramps.

4.2 Most important symptoms and effects, both acute and delayed

Irritation to eyes May cause an allergic skin reaction. Primary irritation to the skin

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder alcohol resistant foam Carbon dioxide (CO2) Water mist

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide.

5.3 Advice for firefighters

Remove persons to safety.

Special protective equipment for firefighters

Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Clear spills immediately. Wear a self-contained breathing apparatus and chemical protective clothing.

For non-emergency personnel

Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

For cleaning up

The contaminated area should be cleaned up immediately with: Water Retain contaminated washing water and dispose it.

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6.4 Reference to other sections

Reference to other sections Safe handling: see section 7 Personal protection equipment: see section 8

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Specific requirements or handling rules

Do not breathe dust. Do not breathe gas/fumes/vapour/spray. See section 8.

Advices on general occupational hygiene

Normal precautions taken when handling chemicals should be observed.

7.2 Conditions for safe storage, including any incompatibilities

Only use containers specifically approved for the substance/product.

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Protect against UV-radiation/sunlight Humidity.

Hints on joint storage

Storage class : 10

Storage class (TRGS 510) : 10

Keep away from

Store at least 3 metres apart from: Chemicals/products that react together readily

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

MALEIC ANHYDRIDE ; CAS No. : 108-31-6

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 0,1 ppm / 0,41 mg/m³

Peak limitation : 1/=2=(I)

Remark : Sa, Y

Version : 06.11.2015

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL Consumer (systemic) (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)

Exposure route : Oral

Exposure frequency : Long-term (repeated)

Limit value : 0,5 mg/kg bw/day

Limit value type : DNEL Consumer (systemic) (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)

Exposure route : Inhalation

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Exposure frequency : Long-term (repeated)
Limit value : 0,87 mg/m³
Limit value type : DNEL Consumer (systemic) (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 0,0893 mg/kg bw/day
Limit value type : DNEL worker (systemic) (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 0,75 mg/m³
Limit value type : DNEL worker (systemic) (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 0,75 mg/kg bw/day
Limit value type : DNEL Consumer (systemic) (RESINS, BISPHENOL F-EPICHLOROHYDRIN ; CAS No. : 9003-36-5)

Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 6,25 mg/kg
Limit value type : DNEL Consumer (systemic) (RESINS, BISPHENOL F-EPICHLOROHYDRIN ; CAS No. : 9003-36-5)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 8,7 mg/m³
Limit value type : DNEL Consumer (systemic) (RESINS, BISPHENOL F-EPICHLOROHYDRIN ; CAS No. : 9003-36-5)

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 62,5 mg/kg bw/day
Limit value type : DNEL worker (systemic) (RESINS, BISPHENOL F-EPICHLOROHYDRIN ; CAS No. : 9003-36-5)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 29,39 mg/m³
Limit value type : DNEL worker (systemic) (RESINS, BISPHENOL F-EPICHLOROHYDRIN ; CAS No. : 9003-36-5)

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 104,15 mg/kg bw/day
Limit value type : DNEL Consumer (local) (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 0,4 mg/m³
Limit value type : DNEL Consumer (systemic) (FATTY ACIDS, C14-18 & C16-18-UNSATD., 2-PHENOXYETHYL ESTERS, MALEATED ; CAS No. : 91001-64-8)

Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 0,5 mg/kg
Limit value type : DNEL Consumer (systemic) (FATTY ACIDS, C14-18 & C16-18-UNSATD., 2-PHENOXYETHYL ESTERS, MALEATED ; CAS No. : 91001-64-8)

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 1 mg/kg

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Limit value type : DNEL Consumer (systemic) (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 0,4 mg/m³
Limit value type : DNEL worker (local) (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)
Exposure route : Dermal
Exposure frequency : Short-term (acute)
Limit value : 40 µG/cm²
Limit value type : DNEL worker (local) (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 0,8 mg/m³
Limit value type : DNEL worker (systemic) (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 0,8 mg/m³

PNEC

Limit value type : PNEC aquatic, freshwater (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Limit value : 6 µg/l
Limit value type : PNEC aquatic, marine water (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Limit value : 1 µg/l
Limit value type : PNEC sediment, freshwater (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Limit value : 0,341 mg/kg
Limit value type : PNEC sediment, marine water (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Limit value : 0,0341 mg/kg
Limit value type : PNEC Soil (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Limit value : 0,065 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Limit value : 10 mg/l
Limit value type : PNEC aquatic, freshwater (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Limit value : 3 µg/l
Limit value type : PNEC aquatic, intermittent release (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Limit value : 25,4 µg/l
Limit value type : PNEC aquatic, marine water (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Limit value : 0,3 µg/l
Limit value type : PNEC sediment, freshwater (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Limit value : 0,294 mg/kg/day
Limit value type : PNEC sediment, marine water (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Limit value : 0,0294 mg/kg/day
Limit value type : PNEC Soil (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Limit value : 0,237 mg/kg/day
Limit value type : PNEC sewage treatment plant (STP) (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Limit value : 10 mg/l
Limit value type : PNEC aquatic, freshwater (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)
Exposure route : Water (Including sewage plant)

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| | |
|--------------------|---|
| Limit value : | 0,04 mg/l |
| Limit value type : | PNEC aquatic, intermittent release (MALEIC ANHYDRIDE ; CAS No. : 108-31-6) |
| Exposure route : | Water (Including sewage plant) |
| Limit value : | 0,42 mg/l |
| Limit value type : | PNEC aquatic, marine water (MALEIC ANHYDRIDE ; CAS No. : 108-31-6) |
| Exposure route : | Water (Including sewage plant) |
| Limit value : | 0 mg/l |
| Limit value type : | PNEC sediment, freshwater (MALEIC ANHYDRIDE ; CAS No. : 108-31-6) |
| Exposure route : | Soil |
| Limit value : | 0,33 mg/kg |
| Limit value type : | PNEC sediment, marine water (MALEIC ANHYDRIDE ; CAS No. : 108-31-6) |
| Exposure route : | Soil |
| Limit value : | 0,03 mg/kg |
| Limit value type : | PNEC Soil (MALEIC ANHYDRIDE ; CAS No. : 108-31-6) |
| Limit value : | 0,04 mg/kg |
| Limit value type : | PNEC Secondary Poisoning (FATTY ACIDS, C14-18 & C16-18-UNSATD., 2-PHENOXYETHYL ESTERS, MALEATED ; CAS No. : 91001-64-8) |
| Limit value : | 20 mg/kg |
| Limit value type : | PNEC sewage treatment plant (STP) (MALEIC ANHYDRIDE ; CAS No. : 108-31-6) |
| Exposure route : | Water (Including sewage plant) |
| Limit value : | 44,6 mg/l |

8.2 Exposure controls

Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Personal protection equipment



When using do not eat, drink, smoke, sniff.

Eye/face protection

Suitable eye protection

Safety glasses with side shields (EN 166).

Skin protection

Hand protection

Wear rubber gloves approved under standard EN374.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus

Full-/half-/quarter-face masks (DIN EN 136/140) Filter type: A

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

| | | |
|--------------------------------------|--------------|------------------|
| Aspect | | syropy liquid |
| Colour | | different colors |
| Odour | | typical |
| Melting point/melting range : | (1013 hPa) | not determined |
| Vapour density | (air = 1) | Not Determined |

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| Initial boiling point and boiling range : | (1013 hPa) | not determined |
| Decomposition temperature : | | not determined |
| Flash point : | > | 60 °C |
| Ignition temperature : | | not determined |
| Flammability (solid, gas) | | Data not available |
| Lower explosion limit : | | not determined |
| Upper explosion limit : | | not determined |
| Explosive properties | | Product is not explosive |
| Vapour pressure | (20 °C) | not determined |
| Density : | (20 °C) | No data available |
| Water solubility : | (20 °C) | insoluble |
| Soluble in: | (20 °C) | organic solvents |
| pH : | | not determined |
| Log Pow | (20 °C) | not applicable |
| Viscosity : | (20 °C) | not determined |
| Odour threshold : | | not determined |
| Evaporation rate : | | not determined |
| Maximum VOC content (EC) : | | 1 Wt % |
| Oxidizing properties | | Not oxidising |

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Decomposes on heating. See section 7. No additional measures necessary.

10.3 Possibility of hazardous reactions

None particular

10.4 Conditions to avoid

Do not expose this product to high temperatures.

10.5 Incompatible materials

May react violently with strong acids. Oxidizing agents. Strong bases.

10.6 Hazardous decomposition products

Carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

| | |
|------------------|--|
| Parameter : | LD50 (BIS-[4-(2,3-EPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | > 15000 mg/kg |
| Parameter : | LD50 (RESINS, BISPHENOL F-EPICHLOROHYDRIN ; CAS No. : 9003-36-5) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | > 2000 mg/kg |

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Method : OECD 420
Parameter : LD50 (OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVIS ; CAS No. : 68609-97-2)
Exposure route : Oral
Species : Rat
Effective dose : 17100 mg/kg
Parameter : LD50 (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)
Exposure route : Oral
Species : Rat
Effective dose : = 400 mg/kg
Parameter : LD50 (FATTY ACIDS, C14-18 & C16-18-UNSATD., 2-PHENOXYETHYL ESTERS, MALEATED ; CAS No. : 91001-64-8)
Exposure route : Oral
Species : Rat
Effective dose : 8295 mg/kg
Method : OECD 401

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 (RESINS, BISPHENOL F-EPICHLOROHYDRIN ; CAS No. : 9003-36-5)
Exposure route : Dermal
Species : Rat
Effective dose : > 5000 mg/kg
Method : OECD 401
Parameter : LD50 (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)
Exposure route : Dermal
Species : Rabbit
Effective dose : = 2620 mg/kg

Irritant and corrosive effects

Primary irritation to the skin

Irritant.

Irritation to eyes

Irritant.

Irritation to respiratory tract

Not an irritant.

Sensitisation

In case of skin contact

sensitising.

In case of inhalation

not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

There were no chronic effects or effects at low concentrations.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The ingredients in this mixture do not meet the criteria for classification as CMR according to CLP.

SECTION 12: Ecological information

Do not allow uncontrolled discharge of product into the environment.

12.1 Toxicity

Aquatic toxicity

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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
Exposure time : 96 h
Parameter : LC50 (OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS ; CAS No. : 68609-97-2)
Effective dose : > 1000 mg/l
Exposure time : 96 h
Parameter : LC50 (FATTY ACIDS, C14-18 & C16-18-UNSATD., 2-PHENOXYETHYL ESTERS, MALEATED ; CAS No. : 91001-64-8)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : > 100 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)
Species : Lepomis macrochirus (Bluegill)
Effective dose : 150 mg/l
Exposure time : 24 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Effective dose : 1,8 mg/l
Exposure time : 48 h
Parameter : EC50 (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)
Species : Daphnia magna (Big water flea)
Effective dose : 88 mg/l
Exposure time : 24 h
Parameter : EC50 (FATTY ACIDS, C14-18 & C16-18-UNSATD., 2-PHENOXYETHYL ESTERS, MALEATED ; CAS No. : 91001-64-8)
Species : Daphnia magna (Big water flea)
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202

Chronic (long-term) daphnia toxicity

Parameter : NOEC (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 0,3 mg/l

Acute (short-term) algae toxicity

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 (RESINS, BISPHENOL F-EPICHLOROHYDRIN ; CAS No. : 9003-36-5)
Species : Selenastrum capricornutum
Effective dose : 1,8 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS ; CAS No. : 68609-97-2)
Species : Pseudokirchneriella subcapitata
Effective dose : 843 mg/l
Exposure time : 72 h
Parameter : IC50 (MALEIC ANHYDRIDE ; CAS No. : 108-31-6)
Species : Scenedesmus subspicatus
Effective dose : 29 mg/l

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Exposure time : 72 h
Parameter : ErC50 (FATTY ACIDS, C14-18 & C16-18-UNSATD., 2-PHENOXYETHYL ESTERS, MALEATED ; CAS No. : 91001-64-8)
Species : Pseudokirchneriella subcapitata
Effective dose : > 100 mg/l
Exposure time : 72 h
Method : OECD 201

Chronic (long-term) algae toxicity

Parameter : NOEC (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Species : Selenastrum capricornutum
Effective dose : 4,2 mg/l
Parameter : NOEC (OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERVIVS ; CAS No. : 68609-97-2)
Species : Pseudokirchneriella subcapitata
Effective dose : 500 mg/l
Exposure time : 72 h

Bacteria toxicity

Parameter : EC50 (OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERVIVS ; CAS No. : 68609-97-2)
Species : Activated sludge
Effective dose : > 100 mg/l
Exposure time : 3 h
Parameter : EC50 (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Effective dose : > 100 mg/l
Exposure time : 3 h
Parameter : EC50 (FATTY ACIDS, C14-18 & C16-18-UNSATD., 2-PHENOXYETHYL ESTERS, MALEATED ; CAS No. : 91001-64-8)
Species : Activated sludge
Effective dose : > 1000 mg/l
Exposure time : 3 h
Method : OECD 209

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Concentration : 150
Parameter : Log KOC (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Concentration : 2,7

12.4 Mobility in soil

Adsorption/Desorption

Parameter : Mobility in soil (BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3)
Effective dose : 1800 - 4400
Parameter : Adsorption coefficient (RESINS, BISPHENOL F-EPICHLOROXYDRIN ; CAS No. : 9003-36-5)
Effective dose : 4460
Method : OECD 121

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Dispose according to legislation.

SECTION 14: Transport information

14.1 UN number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS-[4-(2,3-EPOXI)PROPOXI]PHENYL]PROPANE · RESINS, BISPHENOL F-EPICHLOROHYDRIN)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS-[4-(2,3-EPOXI)PROPOXI]PHENYL]PROPANE · RESINS, BISPHENOL F-EPICHLOROHYDRIN)

Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS-[4-(2,3-EPOXI)PROPOXI]PHENYL]PROPANE · RESINS, BISPHENOL F-EPICHLOROHYDRIN)

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 : E
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

III

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 Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) 1907/2006 (REACH).
Regulation (EC) No 1272/2008 (CLP).
Regulation (EU) 2015/830 requirements for the compilation of safety data sheets.
Amendings, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008:
Commission Regulation (EC) No 790/2009 (I ATP). Commission Regulation (EU) No 286/2011(II ATP). Commission Regulation (EU) No 618/2012 (III ATP). Commission Regulation (EU) No 487/2013 (IV ATP). Commission Regulation (EU) No 944/2013 (V ATP). Commission Regulation (EU) No 605/2014 (VI ATP). Commission Regulation (EU) No 1297/2014 (VII ATP). Commission Regulation (EU) No 2015/1221 (VIII ATP). Commission Regulation (EU) No 2016/1179 (IX ATP). Commission Regulation 2017/776 (EU) No (X ATP).

Other regulations (EU)

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
Classification according to Annex I, Part 1 E2 Hazardous to the aquatic environment in Category Chronic 2

Regulation (CE) 1907/2006: Substance of very high concern included in the SVHC Candidate List

None

National regulations

Italy: Legislative Decree 81/2008 (Consolidated Law on protection of health and safety at work), as amended and Directive 2009/161/UE - chemical risk assessment in accordance with Title IX

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

LEGENDA:

| | |
|---------------|--|
| ADR: | Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada) |
| ASTM: | ASTM International, originariamente nota come American Society for Testing and Materials (ASTM) |
| EINECS: | European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in Commercio) |
| EC(0/50/100): | Effective Concentration 0/50/100 (Concentrazione Effettiva Massima per 0/50/100% degli Individui) |
| LC(0/50/100): | Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50/100% degli Individui) |
| IC50: | Inhibitor Concentration 50 (Concentrazione Inibente per il 50% degli Individui) |
| NOEL: | No Observed Effect Level (Dose massima senza effetti) |
| NOEC: | No Observed Effect Concentration (Concentrazione massima senza effetti) |
| LOEC: | Lowest Observed Effect Concentration (Concentrazione massima alla quale è possibile evidenziare un effetto) |
| DNEL: | Derived No Effect Level (Dose derivata di non effetto) |
| DMEL: | Derived Minimum Effect Level (Dose derivata di minimo effetto) |
| CLP: | Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio) |
| CSR: | Rapporto sulla Sicurezza Chimica (Chemical Safety Report) |
| LD(0/50/100): | Lethal Dose 0/50/100 (Dose Letale per 0/50/100% degli Individui) |
| IATA: | International Air Transport Association (Associazione Internazionale del Trasporto Aereo) |
| ICAO: | International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile) |
| Codice IMDG: | International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo) |

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| | |
|--------|---|
| PBT: | Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche) |
| RID: | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose) |
| STEL: | Short term exposure limit (limite di esposizione a breve termine) |
| TLV: | Threshold limit value (soglia di valore limite) |
| TWA: | Time Weighted Average (media ponderata nel tempo) |
| UE: | Unione Europea |
| vPvB: | Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili) |
| N.D.: | Non disponibile. |
| N.A.: | Non applicabile |
| AwSV.: | Ordinance on facilities for handling substances that are hazardous to water (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV)) |
| PNEC: | Predicted No Effect Concentration |
| PNOS: | Particulates not Otherwise Specified |
| BOD: | Biochemical Oxygen Demand |
| COD: | Chemical Oxygen Demand |
| BCF: | BioConcentration Factor |
| TRGS : | Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany |
| LCLo: | Lethal Concentration Low (La minima concentrazione letale) |
| ThOD: | Theoretical Oxygen Demand |

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]

calculated.

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

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| 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.
