



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

1.1. Product identifier

Product form : Mixture
Product name : ARDEX P 82 Component A
Product code : 4231

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

1.2.1. Relevant identified uses

Main use category : Professional use
Industrial/Professional use spec : Construction materials
Use of the substance/mixture : Substrate Preparation

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

ARDEX Baustoff GmbH

Hürmer Str. 40

A-3382 Loosdorf - Österreich

T +43/2754/7021-0 - F +43/2754/2490

E-mail address of competent person responsible for the SDS : produktion@ardex.at

1.4. Emergency telephone number

Emergency number : +43-(0)1-4064343 (Vergiftungsinformationszentrale Österreich)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

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

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazardous ingredients :

2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane, bisphenol-F-epichlorhydrin epoxy resin, oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Hazard statements (CLP) :

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P102 - Keep out of reach of children.
P280 - Wear eye protection, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of soap and 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.

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| | |
|----------------|--|
| EUH-statements | : P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. EUH205 - Contains epoxy constituents. May produce an allergic reaction. EUH208 Contains mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)(55965-84-9), 1,2-benzisothiazol-3(2H)-one(2634-33-5), 2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane(1675-54-3), oxirane, mono[(C12-14-alkyloxy)methyl] derivs.(68609-97-2). May produce an allergic reaction |
| Extra phrases | : Dispose of contents/container in accordance with regional/national/international/local regulations. |

Labelling according to Directive 67/548/EEC or 1999/45/EC

2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|--------------|---|
| 2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane | (CAS-No.) 1675-54-3 (EC-No.) 216-823-5 (EC Index-No.) 603-073-00-2 (REACH-no) 01-2119456619-26 | > 7,5 - < 10 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| bisphenol-F-epichlorhydrin epoxy resin | (CAS-No.) 9003-36-5 (EC-No.) 500-006-8 (REACH-no) 01-2119454392-40 | < 2,5 | Skin Sens. 1, H317 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | (CAS-No.) 68609-97-2 (EC-No.) 271-846-8 (EC Index-No.) 603-103-00-4 (REACH-no) 01-2119485289-22 | < 2,5 | Skin Irrit. 2, H315 Skin Sens. 1, H317 |
| 1,2-benzisothiazol-3(2H)-one | (CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6 | > 0,005 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 |
| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | (CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5 | > 0,00015 | Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|--|---|--|
| 2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane | (CAS-No.) 1675-54-3 (EC-No.) 216-823-5 (EC Index-No.) 603-073-00-2 (REACH-no) 01-2119456619-26 | (5 ≤C ≤ 100) Eye Irrit. 2, H319 (5 ≤C ≤ 100) Skin Irrit. 2, H315 |
| 1,2-benzisothiazol-3(2H)-one | (CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6 | (0.05 ≤C < 100) Skin Sens. 1, H317 |
| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | (CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5 | (0.0015 ≤C ≤ 100) Skin Sens. 1A, H317 (0.06 ≤C < 0.6) Skin Irrit. 2, H315 (0.06 ≤C < 0.6) Eye Irrit. 2, H319 (0.6 ≤C ≤ 100) Eye Dam. 1, H318 (0.6 ≤C ≤ 100) Skin Corr. 1C, H314 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-------------------------------------|--|
| First-aid measures general | : Remove dirty clothes. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |

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| | |
|---------------------------------------|--|
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth. Do not give an unconscious person anything to drink. If you feel unwell, seek medical advice. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects | : If symptoms persist call a doctor. |
| Symptoms/effects after inhalation | : May cause respiratory irritation. |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : May cause severe irritation. |
| Symptoms/effects after ingestion | : Irritating to the respiratory system and mucous membranes. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|-----------------------------|
| Fire hazard | : Not dangerous. |
| Explosion hazard | : None. |
| Reactivity in case of fire | : Product is not explosive. |
| Hazardous decomposition products in case of fire | : None. |

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Precautionary measures fire | : Evacuate area. |
| Firefighting instructions | : Contain the extinguishing fluids by bunding. Do not allow run-off from fire-fighting to enter drains or water courses. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Absorb spillage to prevent material damage. |
|------------------|---|

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Concerning personal protective equipment to use, see section 8. |
| Emergency procedures | : Avoid contact with skin and eyes. Avoid breathing dust, fume, gas, mist, vapours, spray. |

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Do not allow to enter drains or water courses. |

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Collect spillage. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. |
| Other information | : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). |

6.4. Reference to other sections

For further information refer to section 13. See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|---|
| Additional hazards when processed | : See Heading 8. When mixing the components: Please note the safety data sheet for the second component. |
| Precautions for safe handling | : Wear personal protective equipment. Avoid contact with skin and eyes. Use only in well ventilated areas. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. |

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7.2. Conditions for safe storage, including any incompatibilities

| | |
|-----------------------|---|
| Technical measures | : Store in a well-ventilated place. Keep cool. |
| Storage conditions | : Store in original container. Protect from sunlight. |
| Incompatible products | : Oxidizing agent. Strong bases. Strong acids. |
| Storage area | : Keep out of frost. |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9) | | |
|---|---------------|--|
| Austria | Local name | 5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di-hydroisothiazol-3-on (Gemisch im Verhältnis 3:1) |
| Austria | MAK (OEL TWA) | 0.05 mg/m³ 0.05 mg/m³ |
| Austria | Remark | Sh |

| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9) | |
|---|-----------------|
| DNEL/DMEL (Workers) | |
| Acute - local effects, inhalation | 0.04 mg/m³ |
| Long-term - local effects, inhalation | 0.02 mg/m³ |
| DNEL/DMEL (General population) | |
| Acute - local effects, inhalation | 0.04 mg/m³ |
| Long-term - local effects, inhalation | 0.02 mg/m³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 3.39 µg/l |
| PNEC aqua (marine water) | 3.39 µg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.027 mg/kg dwt |
| PNEC sediment (marine water) | 0.027 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.01 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 0.23 mg/l |

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
|--|--------------------|
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 0.966 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 6.81 mg/m³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, inhalation | 1.2 mg/m³ |
| Long-term - systemic effects, dermal | 0.345 mg/kg bw/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 4.03 µg/l |
| PNEC aqua (marine water) | 0.403 µg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 49.9 mg/kg dwt |
| PNEC sediment (marine water) | 4.99 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 3 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 1.03 mg/l |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Liquid splashes may occur.

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Hand protection:

Protective gloves

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-------------------|---|-------------------|----------------|-------------|------------|
| Disposable gloves | Natural rubber, Latex, Butyl rubber, Nitrile rubber (NBR) | 2 (> 30 minutes) | 0,1 | | |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 1 | | EN ISO 374 |

Eye protection:

Safety glasses

| Type | Field of application | Characteristics | Standard |
|----------------|--|----------------------------|----------|
| Safety goggles | Safety goggles recommended during refilling, Wear security glasses which protect from splashes | Plastic, With side shields | |

Skin and body protection:

Wear suitable protective clothing

| Type | Standard |
|---|----------|
| Skin protection appropriate to the conditions of use should be provided, Long sleeved protective clothing | |

Respiratory protection:

No specific measures are necessary. In case of inadequate ventilation wear respiratory protection.



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Colour | : Various. |
| Odour | : No data available |
| Odour threshold | : No data available |
| pH | : 5 – 8.5 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : 100 °C |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : 2.3 hPa |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1 – 1.1 g/cm³ |
| Solubility | : Forms emulsion in presence of water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 100 – 3000 mPa·s |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |

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Explosive limits : No data available

9.2. Other information

VOC content : < 3 % VOC - Swiss ordinance

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9)

| | |
|-----------------------|--|
| LD50 oral rat | 66 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Calculated by reference to active substance, Oral, 14 day(s)) |
| LD50 dermal rat | > 141 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | 0.17 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Calculated by reference to active substance, Inhalation (aerosol), 14 day(s)) |

1,2-benzisothiazol-3(2H)-one (2634-33-5)

| | |
|-----------------|--|
| LD50 oral rat | 490 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |

bisphenol-F-epichlorhydrin epoxy resin (9003-36-5)

| | |
|-----------------|---|
| LD50 oral rat | > 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral) |
| LD50 dermal rat | > 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal) |

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)

| | |
|--------------------|---|
| LD50 oral rat | 26800 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 4000 mg/kg |

Skin corrosion/irritation : Causes skin irritation.

pH: 5 – 8.5

Serious eye damage/irritation : Causes serious eye irritation.

pH: 5 – 8.5

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : May cause irritation to skin.

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

| | |
|--|--|
| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9) | |
| EC50 - Crustacea [1] | 0.007 mg/l (48 h, Acartia tonsa, Salt water, Experimental value, GLP) |
| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
| LC50 - Fish [1] | 2.18 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Experimental value, Lethal) |
| EC50 - Crustacea [1] | 2.91 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value, Lethal) |
| EC50 72h - Algae [1] | 0.15 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Experimental value, Growth rate) |
| bisphenol-F-epichlorhydrin epoxy resin (9003-36-5) | |
| LC50 - Fish [1] | 1.9 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Weight of evidence) |
| EC50 - Crustacea [1] | 3.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Weight of evidence, GLP) |
| EC50 72h - Algae [1] | > 1.8 mg/l (Equivalent or similar to OECD 201, Selenastrum capricornutum, Static system, Fresh water, Experimental value) |

12.2. Persistence and degradability

| | |
|--|---|
| ARDEX P 82 Component A | |
| Persistence and degradability | Not applicable. |
| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9) | |
| Persistence and degradability | Not readily biodegradable in water. |
| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
| Persistence and degradability | Not readily biodegradable in water. |
| 2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3) | |
| Persistence and degradability | Biodegradability in water: no data available. |
| bisphenol-F-epichlorhydrin epoxy resin (9003-36-5) | |
| Persistence and degradability | Not readily biodegradable in water. |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2) | |
| Persistence and degradability | Readily biodegradable in water. |

12.3. Bioaccumulative potential

| | |
|--|--|
| ARDEX P 82 Component A | |
| Bioaccumulative potential | No bioaccumulation. |
| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9) | |
| BCF - Fish [1] | 41 – 54 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | 0.75 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 24 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
| BCF - Fish [1] | 6.62 (BCFBAF v3.01, 56 day(s), Cyprinus carpio, Calculated value, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | 1.3 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| 2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3) | |
| Bioaccumulative potential | Not bioaccumulative. |
| bisphenol-F-epichlorhydrin epoxy resin (9003-36-5) | |
| BCF - Fish [1] | 150 (Pisces, QSAR) |
| Partition coefficient n-octanol/water (Log Pow) | 2.7 – 3.6 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2) | |
| BCF - Fish [1] | 160 – 263 (BCFWIN, Estimated value) |
| Partition coefficient n-octanol/water (Log Pow) | 3.77 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

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12.4. Mobility in soil

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| | |
|----------------|---------------------------|
| Ecology - soil | No information available. |
|----------------|---------------------------|

mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9)

| | |
|--|--------------------------------------|
| Surface tension | No data available in the literature |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.81 – 1 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

1,2-benzisothiazol-3(2H)-one (2634-33-5)

| | |
|--|--|
| Surface tension | 72.6 mN/m (20 °C, 0.1 %, EU Method A.5: Surface tension) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.97 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil | Highly mobile in soil. |

bisphenol-F-epichlorhydrin epoxy resin (9003-36-5)

| | |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.65 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil | Low potential for mobility in soil. |

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)

| | |
|--|--|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | > 5.63 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil | Adsorbs into the soil. |

12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required

vPvB: not relevant – no registration required

| Component | |
|--|---|
| bisphenol-F-epichlorhydrin epoxy resin (9003-36-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

12.6. Other adverse effects

Additional information : Do not discharge into drains or the environment. The local official regulations for wastewater treatment must be observed

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Do not put down the drain. Must undergo physico-chemical treatment prior to disposal. |
| Product/Packaging disposal recommendations | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| European List of Waste (LoW) code | : 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09 |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| 14.1. UN number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |

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| ADR | IMDG | IATA | ADN | RID |
|--|---------------|---------------|---------------|---------------|
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : < 3 % VOC - Swiss ordinance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

| | |
|---------------------------|---|
| | EUH208 |
| Acute Tox. 2 (Dermal) | Acute toxicity (dermal), Category 2 |
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| EUH205 | Contains epoxy constituents. May produce an allergic reaction. |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |

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| | |
|---------------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1A | Skin sensitisation, category 1A |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.