

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

1.1. Product identifier

Product form : Mixture
Product name : SHF-PRO COMP B
Type of product : Wood Repair
Product group : Trade product
Other means of identification : UFI: 414C-S9WN-CA06-5Y12

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Use of the substance/mixture : Timber
Softwood
Hardwood
Railway Sleepers and Bearers
Function or use category : Building and construction work

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Direct Track Solutions Limited
Units 9 & 10, East Business Park
Kingfisher Way Todwick Road
S25 3AF Dinnington – Rotherham
United Kingdom
T 01246 810198

1.4. Emergency telephone number

Emergency number : Emergency Number Association (EENA) : 112

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|------------------------|------------------|-----------------------------------|
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH | 0344 892 0111 | Only for healthcare professionals |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
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

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

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According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GHS UK)



GHS05

GHS07

Signal word (GHS UK)

: Danger

Contains

: BENZYL ALCOHOL; REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE; 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Hazard statements (GHS UK)

: H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (GHS UK)

: P261 - Avoid breathing dust, fume, gas, mist, vapours or spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective clothing, eye protection, face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

2.3. Other hazards

Results of PBT and vPvB assessment

| Component | |
|--|---|
| Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII | BENZYL ALCOHOL (100-51-6), REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE (72244-98-5), 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2) |
| Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII | BENZYL ALCOHOL (100-51-6), REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE (72244-98-5), 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2) |

Results of Endocrine Disruptor assessment

| Component | |
|---|--|
| Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP | REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE(72244-98-5), BENZYL ALCOHOL(100-51-6), 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL(90-72-2) |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to GB CLP (SI 2019:720 as amended) |
|--|--|---------|---|
| REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE | CAS-No.: 72244-98-5 EC-No.: 701-196-7 | 40 – 50 | Skin Sens. 1, H317 Aquatic Chronic 3, H412 |

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| Name | Product identifier | % | Classification according to GB CLP (SI 2019:720 as amended) |
|---------------------------------------|--|--------|--|
| BENZYL ALCOHOL | CAS-No.: 100-51-6 EC-No.: 202-859-9 | 3 – 10 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL | CAS-No.: 90-72-2 EC-No.: 202-013-9 | 3 – 10 | Skin Corr. 1C, H314 Eye Dam. 1, H318 |

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 | : If you feel unwell, seek medical advice. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| 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. Call a physician immediately. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |
| Self protection of the first-aider | : First aid workers will be equipped with suitable personal protective equipment. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : None under normal conditions. |

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. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Fire hazard | : No fire hazard. |
| Explosion hazard | : No direct explosion hazard. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. 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 : Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.
Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.
Storage conditions : Keep cool. Protect from sunlight.
Packaging materials : Always store product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

| BENZYL ALCOHOL (100-51-6) | |
|---|---------------------------|
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, dermal | 40 mg/kg bodyweight/day |
| Acute - systemic effects, inhalation | 110 mg/m ³ |
| Long-term - systemic effects, dermal | 8 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 22 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, dermal | 20 mg/kg bodyweight |
| Acute - systemic effects, inhalation | 27 mg/m ³ |
| Acute - systemic effects, oral | 20 mg/kg bodyweight |
| Long-term - systemic effects, oral | 4 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 5.4 mg/m ³ |
| Long-term - systemic effects, dermal | 4 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 1 – 1.02 mg/l |
| PNEC aqua (marine water) | 100 – 102 µg/L |
| PNEC aqua (intermittent, freshwater) | 2.3 mg/l |
| REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE (72244-98-5) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 2.7 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 22 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 1.9 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 6.52 mg/m ³ |
| Long-term - systemic effects, dermal | 1.61 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 70 µg/l |
| PNEC aqua (marine water) | 7 µg/l |
| PNEC aqua (intermittent, freshwater) | 120 µg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 322 µg/kg dw |
| PNEC sediment (marine water) | 32 µg/kg dw |
| PNEC (Soil) | |
| PNEC soil | 23 µg/kg dw |
| PNEC (STP) | |
| PNEC sewage treatment plant | 10 mg/l |

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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

DNEL/DMEL (Workers)

| | |
|--|---------------------------|
| Acute - systemic effects, dermal | 0.6 mg/kg bodyweight/day |
| Acute - systemic effects, inhalation | 2.1 mg/m ³ |
| Long-term - systemic effects, dermal | 0.15 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.53 mg/m ³ |

DNEL/DMEL (General population)

| | |
|--|----------------------------|
| Acute - systemic effects, dermal | 0.075 mg/kg bodyweight/day |
| Acute - systemic effects, inhalation | 0.13 mg/m ³ |
| Long-term - systemic effects, oral | 0.075 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.13 mg/m ³ |
| Long-term - systemic effects, dermal | 0.075 mg/kg bodyweight/day |

PNEC (Water)

| | |
|--|-------------|
| PNEC aqua (freshwater) | 0.046 mg/l |
| PNEC aqua (marine water) | 0.0046 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.46 mg/l |
| PNEC aqua (intermittent, marine water) | 0.046 mg/l |

PNEC (Sediment)

| | |
|------------------------------|--------------------|
| PNEC sediment (freshwater) | 0.2621 mg/kg dwt |
| PNEC sediment (marine water) | 0.026211 mg/kg dwt |

PNEC (Soil)

| | |
|-----------|------------------|
| PNEC soil | 0.0254 mg/kg dwt |
|-----------|------------------|

PNEC (STP)

| | |
|-----------------------------|----------|
| PNEC sewage treatment plant | 0.2 mg/l |
|-----------------------------|----------|

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

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8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Chemical resistant gloves (according to European standard ISO 374-1 or equivalent)

| Hand protection | | | | | |
|---------------------------------------|---|-------------------|----------------|--|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves, Reusable gloves | Nitrile rubber (NBR), Butyl rubber, Viton® II | 6 (> 480 minutes) | 0.4 | As the product is a preperation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. | EN ISO 374 |

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN141

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

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 | : Solid |
| Appearance | : Paste. |
| Colour | : Yellow. |
| Odour | : Characteristic odour. |
| Odour threshold | : Not available |
| pH | : Not available |
| pH solution | : Not available |
| Melting point | : Not available |
| Freezing point | : Not applicable |
| Boiling point | : > 200 °C |
| Flash point | : > 100 °C |
| Flammability | : Non flammable. |
| Explosive limits | : Not applicable |
| Lower explosion limit | : Not applicable |
| Upper explosion limit | : Not applicable |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Relative vapour density at 20°C | : Not applicable |
| Relative density | : 1.27 |
| Density | : Not available |
| Solubility | : Material insoluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : Not available |
| Viscosity, kinematic | : Not applicable |

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Explosive properties : Not available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

BENZYL ALCOHOL (100-51-6)

| | |
|---------------------------------|---|
| LD50 oral rat | 1610 mg/kg Source: OECD SIDS |
| LD50 oral | 1580 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1410 - 1770 |
| LD50 dermal rat | > 2000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | > 4.178 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| LC50 Inhalation - Rat (Vapours) | > 4.178 mg/l |

REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE (72244-98-5)

| | |
|--------------------|--|
| LD50 oral rat | 2600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 10200 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

| | |
|---------------|---|
| LD50 oral rat | 2169 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1916 - 2455 |
|---------------|---|

Skin corrosion/irritation : Causes skin irritation.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

| | |
|----|----|
| pH | 11 |
|----|----|

Serious eye damage/irritation : Causes serious eye damage.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

| | |
|----|----|
| pH | 11 |
|----|----|

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

BENZYL ALCOHOL (100-51-6)

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | 400 mg/kg bodyweight Animal: rat, Guideline: other: |
|----------------------------|---|

Aspiration hazard : Not classified

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| | |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

BENZYL ALCOHOL (100-51-6)

| | |
|----------------------|-------------|
| Viscosity, kinematic | 4.851 mm²/s |
|----------------------|-------------|

REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE (72244-98-5)

| | |
|----------------------|-----------------|
| Viscosity, kinematic | 14211.438 mm²/s |
|----------------------|-----------------|

Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

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

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

BENZYL ALCOHOL (100-51-6)

| | |
|-----------------|--|
| LC50 - Fish [1] | 460 mg/l Test organisms (species): Pimephales promelas |
|-----------------|--|

| | |
|----------------------|--|
| EC50 - Crustacea [1] | 230 mg/l Test organisms (species): Daphnia magna |
|----------------------|--|

| | |
|----------------------|--|
| EC50 72h - Algae [1] | 770 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
|----------------------|--|

| | |
|----------------------|--|
| EC50 72h - Algae [2] | 500 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
|----------------------|--|

| | |
|----------------------|--|
| EC50 96h - Algae [1] | 76.828 mg/l Test organisms (species): other: |
|----------------------|--|

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BENZYL ALCOHOL (100-51-6)

| | |
|-------------------|---|
| NOEC chronic fish | 48.897 mg/l Test organisms (species): other: Duration: '30 d' |
|-------------------|---|

REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE (72244-98-5)

| | |
|-----------------|--|
| LC50 - Fish [1] | 87 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
|-----------------|--|

| | |
|----------------------|---|
| EC50 - Crustacea [1] | 12 mg/l Test organisms (species): Daphnia magna |
|----------------------|---|

| | |
|------------------------------------|---------|
| EC50 - Other aquatic organisms [1] | 12 mg/l |
|------------------------------------|---------|

| | |
|----------------------|---|
| EC50 72h - Algae [1] | > 733 mg/l Test organisms (species): Desmodismus subspicatus (previous name: Scenedesmus subspicatus) |
|----------------------|---|

| | |
|----------------|---|
| NOEC (chronic) | 3.5 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
|----------------|---|

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

| | |
|-----------------|--|
| LC50 - Fish [1] | > 100 mg/l Test organisms (species): Cyprinus carpio |
|-----------------|--|

| | |
|----------------------|--|
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
|----------------------|--|

| | |
|----------------------|---|
| EC50 72h - Algae [1] | 46.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
|----------------------|---|

| | |
|----------------------|---|
| EC50 72h - Algae [2] | 25.5 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
|----------------------|---|

| | |
|----------------------|----------------------------|
| EC50 96h - Algae [1] | 34.812 mg/l Source: ECOSAR |
|----------------------|----------------------------|

12.2. Persistence and degradability

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| | |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

BENZYL ALCOHOL (100-51-6)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE (72244-98-5)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

| | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

12.3. Bioaccumulative potential

BENZYL ALCOHOL (100-51-6)

| | |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 1.1 |
|---|-----|

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

| | |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 0.77 |
|---|------|

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

| Component | |
|---|---|
| BENZYL ALCOHOL (100-51-6) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| REACTION PRODUCTS OF PENTAERYTHRITOL, PROPOXYLATED AND 1-CHLORO-2,3-EPOXYPROPANE WITH HYDROGEN SULFIDE (72244-98-5) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |

12.6. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number | | | | |
| Not regulated for transport | | | | |
| 14.2. UN proper shipping name | | | | |
| Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| Transport document description | | | | |
| 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. |
| 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.

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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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. National regulations

UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

UK REACH Candidate List (SVHC)

This product contains no substance(s) listed on the UK REACH Candidate List (SVHC) above the 0.1% level of disclosure

GB PIC Regulation (Prior Informed Consent)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

Drug Precursors Regulation (EC 273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

15.1.2. Other Information

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

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SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---------|---|
| ACGIH | American Conference of Government Industrial Hygienists |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| CAS-No. | Chemical Abstract Service number |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| COD | Chemical oxygen demand (COD) |
| CSA | Chemical safety assessment |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| ED | Endocrine disruptor |
| EN | European Standard |
| EWC | European waste catalogue |
| IARC | International Agency for Research on Cancer : |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| Log Kow | Partition coefficient n-octanol/water (Log Kow) |
| Log Pow | Partition coefficient n-octanol/water (Log Pow) |
| MAK | maximum workplace concentration |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| N.O.S. | Not Otherwise Specified |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| OSHA | Occupational Safety Health Administration |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| PPE | Personal protection equipment |

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Abbreviations and acronyms:

| | |
|------|--|
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| TF | Technical function |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| TWA | Time Weighted Average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| UFI | Unique Formula Identifier |

Full text of H- and EUH-statements:

| | |
|--|---|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| 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 |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H412 | Harmful to aquatic life with long lasting effects. |

Safety Data Sheet (SDS), UK

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.