

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.05.2018

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

1.1. Product identifier

ARC 858(E) Part A

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

Use of the substance/mixture

ARC Polymer Composite. Repair damage caused by impact, abrasion or erosion and chemical attack.

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

| | | |
|--------------------------|-------------------------------|-------------------------------|
| Company name: | Chesterton International GmbH | |
| Street: | Am Lenzenfleck 23 | |
| Place: | DE-85737 Ismaning GERMANY | |
| Telephone: | +49 89 99 65 46 - 0 | Telefax: +49 89 99 65 46 - 50 |
| e-mail: | eu-sds@chesterton.com | |
| e-mail (Contact person): | eu-sds@chesterton.com | |
| Internet: | www.chesterton.com | |
| Responsible Department: | eu-sds@chesterton.com | |

1.4. Emergency telephone number: +49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

2-(chloromethyl)oxirane;4-[2-(4-hydroxyphenyl)propan-2-yl]phenol

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Signal word: Warning

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Pictograms:



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

| | |
|----------------|--|
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| 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. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P391 | Collect spillage. |
| P501 | Dispose of contents/container to an appropriate recycling or disposal facility. |

2.3. Other hazards

The safety and health hazards are detailed separately for Part A and Part B. The final cured material is considered nonhazardous. Upon machining, refer to the precautions in the safety data sheets for Part A and Part B.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|--|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 25068-38-6 | 2-(chloromethyl)oxirane;4-[2-(4-hydroxyphenyl)propan-2-yl]phenol | | | 30 - < 35 % |
| | 500-033-5 | 603-074-00-8 | 01-2119456619-26 | |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411 | | | |
| 9003-36-5 | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | | | 15 - < 20 % |
| | 500-006-8 | | 01-2119454392-40 | |
| | Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411 | | | |

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately.
Do not wash with: Solvents/Thinner

After contact with eyes

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

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Do NOT induce vomiting.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂). alcohol resistant foam. Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide Carbon dioxide (CO₂). Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.

Co-ordinate fire-fighting measures to the fire surroundings.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.
Provide adequate ventilation.
Personal protection equipment: see section 8
Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Adverse environmental effects

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

See protective measures under point 7 and 8. Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

See section 8. Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Further information on storage conditions

Keep away from:
Frost
Heat
Humidity

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|------------|---|-----|-------------------|-----------|---------------|--------|
| 409-21-2 | Silicon carbide (not whiskers), total inhalable | - | 10 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |
| 13463-67-7 | Titanium dioxide, total inhalable | - | 10 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |

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DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|--|----------------|----------|---------------------------|
| 25068-38-6 | 2-(chloromethyl)oxirane;4-[2-(4-hydroxyphenyl)propan-2-yl]phenol | | | |
| Worker DNEL, long-term | | inhalation | systemic | 12,25 mg/m ³ |
| Worker DNEL, acute | | inhalation | systemic | 12,25 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 8,33 mg/kg bw/day |
| Worker DNEL, acute | | dermal | systemic | 8,33 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 3,571 mg/kg bw/day |
| Consumer DNEL, acute | | dermal | systemic | 3,571 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,75 mg/kg bw/day |
| Consumer DNEL, acute | | oral | systemic | 0,75 mg/kg bw/day |
| | | | | |
| 409-21-2 | Silicon carbide | | | |
| Worker DNEL, acute | | inhalation | systemic | 94 mg/m ³ |
| Consumer DNEL, acute | | inhalation | systemic | 23 mg/m ³ |
| Consumer DNEL, acute | | dermal | systemic | 200 mg/kg bw/day |
| Consumer DNEL, acute | | oral | systemic | 13 mg/kg bw/day |
| | | | | |
| 9003-36-5 | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | | | |
| Worker DNEL, long-term | | inhalation | systemic | 29,39 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 104,15 mg/kg bw/day |
| Worker DNEL, acute | | dermal | local | 0,0083 mg/cm ² |
| Consumer DNEL, long-term | | inhalation | systemic | 8,7 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 62,5 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 6,25 mg/kg bw/day |
| 13463-67-7 | Titanium dioxide | | | |
| Worker DNEL, long-term | | inhalation | local | 10 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 700 mg/kg bw/day |

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PNEC values

| CAS No | Substance | Value |
|--|--|-------------|
| Environmental compartment | | |
| 25068-38-6 | 2-(chloromethyl)oxirane;4-[2-(4-hydroxyphenyl)propan-2-yl]phenol | |
| Freshwater | | 0,006 mg/l |
| Marine water | | 0,001 mg/l |
| Freshwater sediment | | 0,996 mg/kg |
| Marine sediment | | 0,1 mg/kg |
| Secondary poisoning | | 11 mg/kg |
| Soil | | 0,196 mg/kg |
| 9003-36-5 | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | |
| Freshwater | | 0,003 mg/l |
| Freshwater sediment | | 0,294 mg/kg |
| Marine sediment | | 0,029 mg/kg |
| Soil | | 0,237 mg/kg |
| 13463-67-7 | Titanium dioxide | |
| Freshwater | | 0,184 mg/l |
| Freshwater (intermittent releases) | | 0,193 mg/l |
| Marine water | | 0,018 mg/l |
| Freshwater sediment | | 1000 mg/kg |
| Marine sediment | | 100 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 100 mg/kg |

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

Eye/face protection

Suitable eye protection:

Eye glasses with side protection
goggles

Hand protection

Tested protective gloves must be worn: DIN EN 374

NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), PVC (polyvinyl chloride), CR (polychloroprene,

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chloroprene rubber)

Thickness of the glove material $\geq 0,4$ mm

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

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

Observe the wear time limits as specified by the manufacturer.

Skin protection

Protective clothing

Respiratory protection

Usually no personal respirative protection necessary.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Combination filtering device (EN 14387) A-P3

Self-contained respirator (breathing apparatus) (DIN EN 133)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|----------------|
| Physical state: | Paste |
| Colour: | light grey |
| Odour: | characteristic |

Test method

| | |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

Changes in the physical state

| | |
|--|----------------|
| Melting point: | not determined |
| Initial boiling point and boiling range: | not determined |
| Flash point: | >249 °C |

Flammability

| | |
|--------|----------------|
| Solid: | not determined |
| Gas: | not determined |

Explosive properties

No information available.

| | |
|-------------------------|----------------|
| Lower explosion limits: | not applicable |
| Upper explosion limits: | not applicable |
| Ignition temperature: | not determined |

Auto-ignition temperature

| | |
|--------|----------------|
| Solid: | not determined |
| Gas: | not determined |

| | |
|----------------------------|----------------|
| Decomposition temperature: | not determined |
|----------------------------|----------------|

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Oxidizing properties

No information available.

| | |
|-------------------|-----------------------|
| Vapour pressure: | not determined |
| Density: | 1,6 g/cm ³ |
| Water solubility: | Immiscible |

Solubility in other solvents

No information available.

| | |
|------------------------------------|----------------|
| Partition coefficient: | not determined |
| Viscosity / dynamic: (at 25 °C) | not determined |

Vapour density: >1 (air = 1)

Evaporation rate: <1 (Ether = 1)

Solvent content: <1

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

Does not decompose when used for intended uses. No known hazardous decomposition products.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Oxidising agent

10.4. Conditions to avoid

Temperature > 300 °C

10.5. Incompatible materials

Acid, Oxidising agent

10.6. Hazardous decomposition products

Carbon monoxide, aldehydes, Acids, Gases/vapours, toxic

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

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| CAS No | Chemical name | | | | |
|------------|--|-------------------|---------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 25068-38-6 | 2-(chloromethyl)oxirane;4-[2-(4-hydroxyphenyl)propan-2-yl]phenol | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Study report (2007) | OECD Guideline 420 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (2007) | OECD Guideline 402 |
| 9003-36-5 | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Study report (1988) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (1988) | OECD Guideline 402 |

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (2-(chloromethyl)oxirane;4-[2-(4-hydroxyphenyl)propan-2-yl]phenol; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

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| CAS No | Chemical name | | | | | |
|------------|--|------------------|-----------|---------------------------------|---------------------|--------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 25068-38-6 | 2-(chloromethyl)oxirane;4-[2-(4-hydroxyphenyl)propan-2-yl]phenol | | | | | |
| | Acute fish toxicity | LC50 3,6 mg/l | 96 h | Oncorhynchus mykiss | Study report (1982) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | Study report (2007) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 1,7 mg/l | 48 h | Daphnia magna | Study report (1984) | OECD Guideline 202 |
| | Crustacea toxicity | NOEC 0,3 mg/l | 21 d | Daphnia magna | Study report (1984) | OECD Guideline 211 |
| 9003-36-5 | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | | | | | |
| | Acute fish toxicity | LC50 > 1000 mg/l | 96 h | Oncorhynchus mykiss | Study report (1998) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 > 1,8 mg/l | 72 h | Pseudokirchneriella subcapitata | Study report (1993) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 > 1000 mg/l | 48 h | Daphnia magna | Study report (1998) | OECD Guideline 202 |
| | Crustacea toxicity | NOEC 0,3 mg/l | 21 d | Daphnia magna | Study report (1984) | OECD Guideline 211 |

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|--|---------|
| 25068-38-6 | 2-(chloromethyl)oxirane;4-[2-(4-hydroxyphenyl)propan-2-yl]phenol | >= 2,64 |
| 9003-36-5 | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 2,7 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|--|-----|---------|----------------------|
| 25068-38-6 | 2-(chloromethyl)oxirane;4-[2-(4-hydroxyphenyl)propan-2-yl]phenol | 31 | | Study report (2010) |
| 9003-36-5 | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 150 | | Other company data (|

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|---|--|
| <u>14.1. UN number:</u> | UN 3082 |
| <u>14.2. UN proper shipping name:</u> | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin) |
| <u>14.3. Transport hazard class(es):</u> | 9 |
| <u>14.4. Packing group:</u> | III |
| Hazard label: | 9 |
| Classification code: | M6 |
| Special Provisions: | 274 335 375 601 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 90 |
| Tunnel restriction code: | - |

Inland waterways transport (ADN)

| | |
|---|--|
| <u>14.1. UN number:</u> | UN 3082 |
| <u>14.2. UN proper shipping name:</u> | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin) |
| <u>14.3. Transport hazard class(es):</u> | 9 |
| <u>14.4. Packing group:</u> | III |
| Hazard label: | 9 |
| Classification code: | M6 |
| Special Provisions: | 274 335 375 601 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |

Marine transport (IMDG)

| | |
|---|--|
| <u>14.1. UN number:</u> | UN 3082 |
| <u>14.2. UN proper shipping name:</u> | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin) |
| <u>14.3. Transport hazard class(es):</u> | 9 |
| <u>14.4. Packing group:</u> | III |

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Hazard label: 9
Marine pollutant: P
Special Provisions: 274, 335, 969
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(epoxy resin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9
Special Provisions: A97 A158 A197
Limited quantity Passenger: 30 kg G
Passenger LQ: Y964
Excepted quantity: E1
IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L
IATA-packing instructions - Cargo: 964
IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes
Danger releasing substance: epoxy resin

14.6. Special precautions for user

No information available.

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

No information available.

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
2-(chloromethyl)oxirane;4-[2-(4-hydroxyphenyl)propan-2-yl]phenol
Silicon carbide
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
Titanium dioxide

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SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effect concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

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

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method |
| Eye Irrit. 2; H319 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Further Information

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself.
No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose.
The user must make their own determination as to suitability.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)