

Safety Data Sheet

Stronghold Resin



Safety Data Sheet dated 26/06/2017

This Safety Data Sheet cancels and replaces any preceding release.



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

1.1. Product identifier

Mixture identification:

Trade name: Stronghold Resin

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

Recommended use: Resin for composite materials

1.3. Details of the supplier of the safety data sheet

Company:

The Glass Fibre Roofing Company Ltd

Unit 2c Sir Alfred Owen Way

Pontygwindy Ind Est

Caerphilly CF83 3HU

Tel. 02920 888020

Competent person responsible for the safety data sheet:

sales@glassfibreroofing.co.uk

1.4. Emergency telephone number

02920 888020

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

- Warning: Warning, Flam. Liq. 3, Flammable liquid and vapour.
- Warning: Warning, Acute Tox. 4, Harmful if inhaled.
- Warning: Warning, Skin Irrit. 2, Causes skin irritation.
- Warning: Warning, Eye Irrit. 2, Causes serious eye irritation.
- Warning: Warning, Repr. 2, Suspected of damaging fertility or the unborn child.
- Warning: Danger, STOT RE 1, Causes damage to organs through prolonged or repeated exposure.

Adverse physicochemical, human health and environmental effects: No other hazards
2.2. Label elements Symbols:



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Warning: Danger

Hazard statements:

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P312 Call a POISON CENTER/ doctor/if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contents

styrene

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards vPvB Substances: None - PBT

Substances: None Other Hazards: No other hazards

SECTION 2: Hazards identification

The product is a liquid that can catch fire at temperatures in excess of 21 °C if exposed to an ignition source.

The product is harmful following acute exposure to it and poses a serious health threat if inhaled. If brought into contact with the eyes, the product causes irritation that may last for over 24h, if inhaled, it causes irritation to the airways, and if brought into contact with the skin it causes significant inflammation with erythema, scabs, and oedema.

This product is harmful: serious harm (functional disorders or significant morphological changes that are toxicology-related) may be caused by repeated or prolonged exposure to the product by inhalation.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

39.7 % styrene

REACH No.: 01-2119457861-32-xxxx, Index number: 601-026-00-0, CAS: 100-42-5, EC: 202-851-5

Repr. Cat. 3, Xn, Xi; R10-20-36/38-48/20-63

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- ◊ 2.6/3 Flam. Liq. 3 H226
- ◊ 3.7/2 Repr. 2 H361d
- ◊ 3.1/4/Inhal Acute Tox. 4 H332
- ◊ 3.9/1 STOT RE 1 H372
- ◊ 3.2/2 Skin Irrit. 2 H315
- ◊ 3.3/2 Eye Irrit. 2 H319

639 ppm xylene [isomer mixture]

REACH No.: 01-2119488216-32-xxxx, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7

Xn, Xi; R36/37/38-65-10-20/21

- ◊ 2.6/3 Flam. Liq. 3 H226
- ◊ 3.3/2 Eye Irrit. 2 H319
- ◊ 3.2/2 Skin Irrit. 2 H315
- ◊ 3.8/3 STOT SE 3 H335
- ◊ 3.1/4/Dermal Acute Tox. 4 H312
- ◊ 3.9/2 STOT RE 2 H373
- ◊ 3.1/4/Inhal Acute Tox. 4 H332
- ◊ 3.10/1 Asp. Tox. 1 H304

519 ppm 2-phenylpropene

Index number: 601-027-00-6, CAS: 98-83-9, EC: 202-705-0

Xi, N; R10-36/37-51/53

- ◊ 2.6/3 Flam. Liq. 3 H226
- ◊ 3.3/2 Eye Irrit. 2 H319
- ◊ 3.8/3 STOT SE 3 H335
- ◊ 4.1/C2 Aquatic Chronic 2 H411

347 ppm 2-(2-butoxyethoxy)ethanol

REACH No.: 01-2119475104-44-xxxx, Index number: 603-096-00-8, CAS: 112-34-5, EC: 203-961-6

Xi; R36

- ◊ 3.3/2 Eye Irrit. 2 H319

139 ppm ethanediol

REACH No.: 01-2119456816-28-xxxx, Index number: 603-027-00-1, CAS: 107-21-1, EC: 203-473-3

Xn; R22

- ◊ 3.1/4/Oral Acute Tox. 4 H302
- ◊ 3.9/2 STOT RE 2 H373

39 ppm 2-butoxyethanol

REACH No.: 01-2119475108-36-xxxx, Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0

Xn, Xi; R20/21/22-36/38

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- ⚠ 3.3/2 Eye Irrit. 2 H319
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 3.1/4/Dermal Acute Tox. 4 H312
- ⚠ 3.1/4/Inhal Acute Tox. 4 H332

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

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

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

None

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

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use CO₂, foam, chemical powders

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .



Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove all sources of ignition.
 - Wear breathing apparatus if exposed to vapours/dusts/aerosols.
 - Provide adequate ventilation.
 - Use appropriate respiratory protection.
 - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 - Suitable material for taking up: absorbing material, organic, sand
 - Eliminate all unguarded flames and possible sources of ignition. Do not smoke.
- 6.3. Methods and material for containment and cleaning up
 - Collect the spilled product with no-sparking tools.
 - Rapidly recover the product. To do so, wear a mask and protective clothing.
 - Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.
 - After the product has been recovered, rinse the area and materials involved with water.
- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Use localized ventilation system.
 - Don't use empty container before they have been cleaned.
 - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
 - Do not smoke while working.
 - See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Avoid the accumulation of electrostatic charges.
 - Put the containers earthed while decanting and wear antistatic footwear and clothing.
 - Keep away from food, drink and feed.
 - Incompatible materials:

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Avoid contact with combustible materials. The product could catch fire.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

styrene - CAS: 100-42-5

France VME - LTE(8h): 215 mg/m³, 50 ppm

United Kingdom WEL TWA - LTE(8h): 430 mg/m³, 100 ppm - STE(15'): 1050 mg/m³, 250 ppm

MAK - LTE(8h): 85 mg/m³, 20 ppm - STE(15'): 170 mg/m³, 40 ppm

Spain TLV - LTE(8h): 85 mg/m³, 20 ppm - STE(15'): 170 mg/m³, 40 ppm

Netherlands TLV - LTE(8h): 105 mg/m³, 25 ppm - STE(15'): 200 mg/m³, 50 ppm

Czech Republic TLV - LTE(8h): 200 mg/m³, 47 ppm - STE(15'): 990 mg/m³, 234

ppm Poland TLV - LTE(8h): 50 mg/m³, 12 ppm - STE(15'): 200 mg/m³, 50 ppm F16, 25 ppm

ACGIH, 20 ppm, 40 ppm - Notes: A4, BEI - CNS impair, URT irr, peripheral neuropathy

xylene [isomer mixture] - CAS: 1330-20-7

EU - LTE(8h): 221 mg/m³, 50 ppm - STE: 442 mg/m³, 100 ppm - Notes: Bold-type:

Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 100 ppm, 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

2-phenylpropene - CAS: 98-83-9

EU - LTE(8h): 246 mg/m³, 50 ppm - STE: 492 mg/m³, 100 ppm - Notes: Bold-type:

Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 10 ppm - Notes: A3 - URT irr, kidney dam, female repro dam

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

EU - LTE(8h): 67,5 mg/m³, 10 ppm - STE: 101,2 mg/m³, 15 ppm - Notes: Bold-type:

Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 10 ppm - Notes: (IFV) - Hematologic, liver and kidney eff

ethanediol - CAS: 107-21-1

EU - LTE(8h): 52 mg/m³, 20 ppm - STE: 104 mg/m³, 40 ppm - Notes: Bold-type:

Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH - STE: C 100 mg/m³ - Notes: A4 (H) - URT and eye irr

2-butoxyethanol - CAS: 111-76-2

Czech Republic TLV - LTE(8h): 100 mg/m³ - STE(15'): 200 mg/m³ - Notes: SKIN

EU - LTE(8h): 98 mg/m³, 20 ppm - STE: 246 mg/m³, 50 ppm - Notes: Bold-type:

Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 20 ppm - Notes: A3, BEI - Eye and URT irr

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DNEL Exposure Limit Values

styrene - CAS: 100-42-5

Worker Industry: 289 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 306 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 406 mg/kg/bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 85 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 174.25 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

ethanediol - CAS: 107-21-1

Worker Industry: 106 mg/kg/bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 35 mg/m³ - Frequency: Long Term, local effects

Consumer: 53 mg/kg/bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

PNEC Exposure Limit Values

styrene - CAS: 100-42-5

Target: Fresh Water - Value: 0.028 mg/l

Target: Marine water - Value: 0.0028 mg/l

Target: Freshwater sediments - Value: 0.614 mg/l

Target: Marine water sediments - Value: 0.0614 mg/l

Target: Soil (agricultural) - Value: 0.2

mg/kg 8.2. Exposure controls Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, such as Tyvek coveralls

(EN 1073 EN 13034 EN 13982-1 EN 1149-5) Protection for hands:

Use Suitable chemical resistant safety gloves (EN 374) Type: PVC, neoprene or rubber.

Always refer to the data protection and permeation rate provided by the glove manufacturer, in respect of the substances listed in paragraph 3 of this data sheet.

Respiratory protection:

Use adequate respiratory protection, for example. organic vapor cartridge-type, or combined filter

Thermal Hazards:

None

Environmental exposure controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour: Turbid liquid blue

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Odour: Of solvent
Odour threshold: N.A. pH: N.A.
Melting point / freezing point: (100-42-5) -31 °C
Initial boiling point and boiling range: (100-42-5) 145 °C
Solid/gas flammability: N.A.
Upper/lower flammability or explosive limits: (100-42-5) 1.1% - 6.1%
Vapour density: (100-42-5) 3.6
Evaporation rate: N.A.
Vapour pressure: (100-42-5) 0.667 kPa a 20°C
Relative density: 1.1 Kg/l a 20°C
Solubility in water: No
Solubility in oil: No
Partition coefficient (n-octanol/water): (100-42-5) 2.9 Log POW a 20°C
Auto-ignition temperature: (100-42-5) 490 °C
Decomposition temperature: N.A.
Viscosity: 680 mPa s (20°C)
Explosive properties: No
Oxidizing properties: No

9.2. Other information

Miscibility: Si
Fat Solubility: No
Conductivity: N.A.
Substance Groups relevant properties N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions
It may generate dangerous reactions (See subsections below)

10.2. Chemical stability

Stable under normal conditions
It may generate dangerous reactions (See subsections below)

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Avoid the accumulation of electrostatic charges.
Keep away from open flames, sparks and other sources of ignition. Vapors may form explosive mixtures with air.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.



SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

styrene - CAS: 100-42-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2650 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 11.8 mg/l - Duration:

4h xylene [isomer mixture] - CAS: 1330-20-7 a) acute toxicity:

Test: LD50 - Route: Inhalation - Species: Rat = 5000 ppm - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 1700

mg/kg 2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rabbit = 3 mg/l - Duration: 2h

Test: LD50 - Route: Oral - Species: Rat = 3384 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 3764

mg/kg 2-butoxyethanol - CAS: 111-76-2 a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 200 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 2 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rat > 400 mg/kg

styrene - CAS: 100-42-5

Eye Contact: Causes severe eye irritation with symptoms of pain or irritation, tearing and redness.

Inhalation can irritate the respiratory tract with symptoms of coughing.
contact with skin may cause irritation, redness.

May be fatal if swallowed and enters airways, irritating to the mouth, throat, stomach with symptoms of nausea, vomiting

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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styrene - CAS: 100-42-5

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 4.9 mg/l - Duration h: 72 - Notes: fresh water

Endpoint: EC50 - Species: Daphnia = 4.7 mg/l - Duration h: 48 - Notes: fresh water

Endpoint: LC50 - Species: Fish = 4.02 mg/l - Duration h: 96 - Notes: fresh

water

xylene [isomer mixture] - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 4.09 mg/l - Duration h:

96 2-butoxyethanol - CAS: 111-76-2 a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 1840 mg/l - Duration h: 72

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment vPvB

Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Dispose of the container / container at authorized waste disposal centers

SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 1866

IATA-UN Number: 1866

IMDG-UN Number: 1866

14.2. UN proper shipping name

ADR-Shipping Name: RESIN SOLUTION, flammable

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IATA-Shipping Name: RESIN SOLUTION, flammable
IMDG-Shipping Name: RESIN SOLUTION, flammable

14.3. Transport hazard class(es)

ADR-Class: 3
ADR - Hazard identification number: 30
IATA-Class: 3
IATA-Label: 3
IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III

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- 14.5. Environmental hazards
- | | |
|------------------------------|----|
| ADR-Environmental Pollutant: | No |
| IMDG-Marine pollutant: | No |
- 14.6. Special precautions for user
- | | |
|------------------------------------|------------|
| ADR-Subsidiary risks: | - |
| ADR-S.P.: | 640E |
| ADR-Tunnel Restriction Code: (D/E) | |
| IATA-Passenger Aircraft: | 355 |
| IATA-Subsidiary risks: | - |
| IATA-Cargo Aircraft: | 615 |
| IATA-S.P.: | - |
| IATA-ERG: | 3L |
| IMDG-EmS: | F-E , S-E |
| IMDG-Subsidiary risks: | - |
| IMDG-Storage category: | Category A |
| IMDG-Storage notes: | - |
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
 - Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)
 - Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 2000/39/EC (Occupational exposure limit values)
 - Dir. 2006/8/EC
 - Regulation (EC) n. 1907/2006 (REACH)
 - Regulation (EC) n. 1272/2008 (CLP)
 - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 - Regulation (EU) n. 453/2010 (Annex I)
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 CLP)
 - Regulation (EU) n. 487/2013 (ATP 4 CLP)
 - Regulation (EU) n. 944/2013 (ATP 5 CLP)
 - Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII

Regulation (EC) 1907/2006 (REACH) and subsequent modifications: None

Volatile Organic compounds - VOCs = 41.19 %

Volatile CMR substances = 0.00 %

Organic Carbon - C = 0.38

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

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Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):

N.A.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of phrases referred to in Section 3:

R10 Flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R36/37 Irritating to eyes and respiratory system.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R63 Possible risk of harm to the unborn child

R65 Harmful: may cause lung damage if swallowed.

H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H312 Harmful in contact with skin.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

RESTRICTED TO PROFESSIONAL USERS

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

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Training for workers: training workers must provide content, updates and duration as a function of the risk profiles assigned to the working sectors of belonging, in the manner prescribed by the laws in force concerning safety and health in the workplace

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.