

according to 1907/2006/EC, Article 31

Printing date 05.11.2021

Version number 4

Revision: 05.11.2021

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

• 1.1 Product identifier

· Trade name: RELAFLOOR 3420 1K PU Beschichtung

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the substance / the mixture Coating

• 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier:

FEYCOLOR GmbH Maxhüttenstraße 6 93055 Regensburg Germany

Tel.: +49 (0) 941-60497-0 Fax: +49 (0) 941-60497-30 info@feycolor.com www.feycolor.com

Office hours: Monday - Thursday: 08:00 - 12:00 und 13:00 - 16:00 Friday: 08:00 - 12:00

Email: sd@feycolor.com www.feycolor.com

• **1.4 Emergency telephone number:** +49 (0) 700 24 11 21 12 (FCM)

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008



Flam. Liq. 3

H226 Flammable liquid and vapour.



| Resp. Sens. 1 | H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
|---------------|---|
| Carc. 2 | H351 Suspected of causing cancer. |
| STOT RE 2 | H373 May cause damage to organs through prolonged or repeated exposure. |



| • | | |
|---------------|---|-----|
| Acute Tox. 4 | H332 Harmful if inhaled. | |
| Skin Irrit. 2 | H315 Causes skin irritation. | |
| Eye Irrit. 2 | H319 Causes serious eye irritation. | |
| Skin Sens. 1 | H317 May cause an allergic skin reaction. | |
| STOT SE 3 | H335 May cause respiratory irritation. | |
| | | (Co |



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|--------------------|--|
| Aquatic Chro | onic 3 H412 Harmful to aquatic life with long lasting effects. |
| 2.2 Label ele | |
| | cording to Regulation (EC) No 1272/2008 |
| - | is classified and labelled according to the CLP regulation. |
| Hazard pict | ograms |
| $\mathbf{\wedge}$ | \wedge \wedge |
| <u></u> | |
| <u>E</u> 2 | |
| | |
| GHS02 C | GHS07 GHS08 |
| Signal word | Danger |
| Hazard-dete | ermining components of labelling: |
| | based on aromatic polyisocyanate |
| | nanediisocyanate, isomeres and homologues |
| 4,4'-methyler | nediphenyl diisocyanate |
| Xylene | |
| Hazard state | |
| | able liquid and vapour. |
| H332 Harmf | ul if inhaled. |
| | skin irritation. |
| | serious eye irritation. |
| | ause allergy or asthma symptoms or breathing difficulties if inhaled. |
| | ause an allergic skin reaction. |
| | ted of causing cancer. |
| | ause respiratory irritation. |
| | ause damage to organs through prolonged or repeated exposure. |
| | ul to aquatic life with long lasting effects. |
| | ry statements |
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read carefully and follow all instructions. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P284 | [In case of inadequate ventilation] wear respiratory protection. |
| | P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or showe |
| P305+P351+ | P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and ea |
| D 501 | to do. Continue rinsing. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Additional in | |
| | ntains isocyanates. May produce an allergic reaction. |
| | August 2023 adequate training is required before industrial or professional use. |
| 2.3 Other ha | |
| | BT and vPvB assessment |
| PBT: Not ap | |
| vPvB: Not a | ppiicable. |

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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

| CAS: 67815-87-6 | Prepolymer based on aromatic polyisocyanate | 10-25% |
|---|--|-----------|
| | Resp. Sens. 1, H334; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | |
| CAS: 64742-95-6 | Hydrocarbons, C9, aromatics | ≥2.5-≤20% |
| EC number: 918-668-5 Reg.nr.: 01-2119455851-35 | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336 | |
| CAS: 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues | 10-25% |
| EINECS: 202-966-0 | Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | |
| CAS: 1330-20-7 | Xylene | 5-<10% |
| EINECS: 215-535-7 Reg.nr.: 01-2119488216-32 | Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | |
| CAS: 100-41-4 | Ethylbenzene | <2.5% |
| EINECS: 202-849-4 Reg.nr.: 01-2119489370-35 | Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 | |
| CAS: 101-68-8 | 4,4'-methylenediphenyl diisocyanate | ≥1-<2.5% |
| EINECS: 202-966-0 Reg.nr.: 01-2119457014-47 | Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | |
| CAS: 5873-54-1 | o-(p-isocyanatobenzyl)phenyl isocyanate | ≥1-<2.5% |
| EINECS: 227-534-9 Reg.nr.: 01-2119480143-45 | Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | |
| CAS: 4083-64-1 | 4-isocyanatosulphonyltoluene | ≥0.1-<1% |
| EINECS: 223-810-8 Reg.nr.: 01-2119980050-47 | Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | |

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

[.] General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately rinse with water.

• After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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• After swallowing: If symptoms persist consult doctor.

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

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

· 5.3 Advice for firefighters

• Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

\cdot 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Contain and collect spillages with non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth) and place in a suitable container.

Decontaminate immediately with suitable mixture (flammable):

| · · · · · · · · · · · · · · · · · · · | |
|---------------------------------------|----------|
| - as such usable (inflammatory!): | |
| water | 45 Vol.% |
| ethanol or isopropanol | 50 Vol.% |
| ammonia solution (Density= 0.88) | 5 Vol.% |
| - alternatively (non-flammable): | |
| sodium carbonate | 5 Vol.% |
| water | 95 Vol.% |
| | |

Add the same decontaminant to any residues and allow to stand for several days in an non-sealed container until no further reaction occurs. Once this stage is reached, close the container and dispose of in accordance with the waste regulations (see Section 13).

6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only be employed in processes in which this product is used under appropriate medical supervision.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility:

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs.

• Further information about storage conditions: Keep container tightly sealed.

Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol and water.

• Storage class: 3

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

• Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

1330-20-7 XyleneWELShort-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGV

100-41-4 Ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk

101-68-8 4,4'-methylenediphenyl diisocyanate

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

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| 5972 5 | 4-1 o-(p-isocyanatobenzyl)phenyl isocyanate (Contd. of page |
|----------|---|
| | |
| | Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ |
| | Sen; as -NCO |
| | 4-1 4-isocyanatosulphonyltoluene |
| | Short-term value: 0.07 mg/m ³ |
| | Long-term value: 0.02 mg/m ³ |
| | Sen; as -NCO |
| | ients with biological limit values: |
| 0 | 0-7 Xylene |
| | 650 mmol/mol creatinine |
| Divid | Medium: urine |
| | Sampling time: post shift |
| | Parameter: methyl hippuric acid |
| 101-68 | -8 4,4'-methylenediphenyl diisocyanate |
| BMGV | 1 µmol creatinine/mol |
| | Medium: urine |
| | Sampling time: At the end of the period od exposure |
| | Parameter: isocyanate-derived diamine |
| | 4-1 o-(p-isocyanatobenzyl)phenyl isocyanate |
| BMGV | 1 μmol creatinine/mol |
| | Medium: urine |
| | Sampling time: At the end of the period od exposure |
| | Parameter: isocyanate-derived diamine |
| Additio | onal information: The lists valid during the making were used as basis. |
| 8.2 Exp | oosure controls |
| | al protective equipment: |
| | sonal protective equipment, including respiratory protective equipment, used to control exposure to hazardo |
| | ces must be selected to meet the requirements of the COSHH Regulations. |
| | al protective and hygienic measures: |
| | way from foodstuffs, beverages and feed. iately remove all soiled and contaminated clothing |
| | ands before breaks and at the end of work. |
| | rotective clothing separately. |
| | contact with the eyes. |
| | contact with the eyes and skin. |
| | atory protection: |
| | |
| | In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u |
| | self-contained respiratory protective device. |
| 63356 | |
| | tion of hands: |
| Selectio | on of the glove material on consideration of the penetration times, rates of diffusion and the degradation |
| | |



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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· Material of gloves

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation 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.

· Breakthrough time of glove material

Tightly sealed goggles

- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection:

| SECTION 9: Physical and chemical properties | |
|---|---|
| • 9.1 Information on basic physical and c • General Information • Appearance: | hemical properties |
| Form: | Fluid |
| Colour: | According to product specification |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |
| · pH-value: | Not determined. |
| Change in condition Melting point/freezing point: Initial boiling point and boiling range | Undetermined. :: 136 °C |
| · Flash point: | 23 °C (DIN EN ISO 1523:2002) |
| · Flammability (solid, gas): | Not applicable. |
| · Ignition temperature: | 400 °C (DIN 51794) |
| · Decomposition temperature: | Not determined. |
| · Auto-ignition temperature: | Product is not selfigniting. |
| • Explosive properties: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · Explosion limits: | |
| Lower: | 0.7 Vol % |
| Upper: | 7.5 Vol % |
| · Vapour pressure at 20 °C: | 6.7-8.2 hPa |
| · Density at 20 °C: | 1.331 g/cm ³ (DIN EN ISO 2811-1) |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| · Evaporation rate | Not determined. |
| Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| Partition coefficient: n-octanol/water: | Not determined. |
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|----------------------------|--|-------|
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic at 20 °C: | 120 s (DIN 53211/4) | |
| · Solvent content: | | |
| VOC (EC) | 24.29 % | |
| Solids content (weight-%): | 75.7 % | |
| • 9.2 Other information | No further relevant information available. | |

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products:

Possible in traces.

Nitrogen oxides Hydrogen chloride (HCl)

Hydrogen cyanide (prussic acid) Carbon monoxide

Nitrogen oxides (NOx)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

Harmful if inhaled.

| · LD/LC50 | values rel | evant for classification: | |
|--------------|---------------|---------------------------|--------------------|
| 64742-95- | -6 Hydroca | arbons, C9, aromatics | |
| Oral | LD50 | >2,000 mg/kg (rat) | |
| Dermal | LD50 | >2,000 mg/kg (rabbit) | |
| 1330-20-7 | ' Xylene | | |
| Oral | LD50 | 5,251 mg/kg (rat) | |
| Dermal | LD50 | >5,000 mg/kg (rabbit) | |
| Inhalative | LC50/4 h | 29 mg/l (rat) | |
| 4083-64-1 | 4-isocyan | atosulphonyltoluene | |
| Oral | LD50 | 2,600 mg/kg (rat) | |
| · Primary i | rritant eff | ect: | |
| • Skin corr | osion/irrit | ation | |
| Causes sk | in irritation | | |
| · Serious ey | ye damage | /irritation | |
| Causes set | rious eye ir | ritation. | |
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• **Respiratory or skin sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity
- Suspected of causing cancer.

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

- STOT-single exposure
- May cause respiratory irritation.
- STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) : hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- Harmful to aquatic organisms
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Packagings that may not be cleansed are to be disposed of in the same manner as the product.

| SECTION 14: Transport information | | |
|---|--------------|---------------------|
| · 14.1 UN-Number · ADR, IMDG, IATA | UN1263 | |
| · 14.2 UN proper shipping name · ADR | UN1263 PAINT | |
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|--|---|-----------|
| IMDG, IATA | PAINT | |
| 14.3 Transport hazard class(es) | | |
| ADR | | |
| | | |
| Class | 3 (F1) Flammable liquids. | |
| Label | 3 | |
| IMDG, IATA | | |
| | | |
| Class | 3 Flammable liquids. | |
| Label | 3 | |
| 14.4 Packing group ADR, IMDG, IATA | III | |
| 14.5 Environmental hazards: | Not applicable. | |
| 14.6 Special precautions for user | Warning: Flammable liquids. | |
| Hazard identification number (Kemler code): | 30 | |
| EMS Number: | F-E, <u>S-E</u> | |
| Stowage Category | А | |
| 14.7 Transport in bulk according to Annex II of Ma and the IBC Code | arpol Not applicable. | |
| | Not applicable. | |
| Transport/Additional information: | | |
| ADR | - | |
| Limited quantities (LQ) | 5L | |
| Transport category | 3 D/E | |
| Tunnel restriction code Remarks: | $D/E \le 450 \text{ l: } 2.2.3.1.5 \text{ ADR}$ | |
| | ≤ 430 I. 2.2.3.1.3 ADK | |
| | 51 | |
| Limited quantities (LQ) Remarks: | 5L ≤ 30 l: 2.2.3.5 IMDG-Code | |
| | | |
| UN "Model Regulation": | UN 1263 PAINT, 3, III | |

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

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| ation | al regulations: | | |
|--------|------------------|---|--|
| dditio | onal classificat | ion according to Decree on Hazardous Materials, Annex II: | |
| Class | Share in % | | |
| Ι | 10-25 | | |
| NK | 10-25 | | |

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic
- vDvD, vory Doroistant and vory Discourse 1.
- vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids Category 3
- Acute Tox. 4: Acute toxicity Category 4
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2
- Resp. Sens. 1: Respiratory sensitisation Category 1
- Skin Sens. 1: Skin sensitisation Category 1
- Carc. 2: Carcinogenicity Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 • * **Data compared to the previous version altered.**

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