

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 24.06.2024

Version number 1

Revision: 24.06.2024

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

- **1.1 Product identifier**
- **Trade name:** Q 70-441 2K Solvent Prefill Spray
- **UFI:** 2220-A0AY-V00X-QNS4
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**  
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the mixture:**  
painting  
FOR PROFESSIONAL USE ONLY
- **Uses advised against** Consumer uses: Private households / general public / consumers
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Q-Company Int. GmbH  
Lentförderer Strasse 12-14  
D-24576 Weddelbrook Germany  

Tel.: +49 (0) 4192 891420  
e-mail: msds@qrefinish.com
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:** TEL.: +49(0)551-19240 (Giftinformationszentrum-Nord)
- **national:**  
National Poisons Information Service, Birmingham  
Tel.: 844 892 0111
- **K-Nr.** 0055

**SECTION 2: Hazards identification**

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



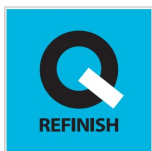
flame

Aerosol 1                      H222 Extremely flammable aerosol.  
   H229 Pressurised container: May burst if heated.



Acute Tox. 4                      H332 Harmful if inhaled.  
Eye Irrit. 2                      H319 Causes serious eye irritation.  
Skin Sens. 1                      H317 May cause an allergic skin reaction.

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STOT SE 3      H336 May cause drowsiness or dizziness.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS02    GHS07

· **Signal word Danger**

· **Hazard-determining components of labelling:**

Aliphatic polyisocyanate (HDI oligomers, isocyanurate)

ethyl acetate

Reaction mass of ethylbenzene and xylene

n-butyl acetate

· **Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

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

P211      Do not spray on an open flame or other ignition source.

P251      Do not pierce or burn, even after use.

P271      Use only outdoors or in a well-ventilated area.

P273      Avoid release to the environment.

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.

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

P333+P313      If skin irritation or rash occurs: Get medical advice/attention.

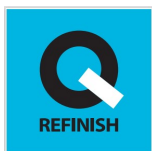
P337+P313      If eye irritation persists: Get medical advice/attention.

P410+P412      Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501      Dispose of contents/container in accordance with local/regional/national/international regulations.

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**· Additional information:**

Without adequate ventilation, explosive atmosphere/gas mix may be created.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

EUH204 Contains isocyanates. May produce an allergic reaction.

**· Information concerning particular hazards for human and environment: 1272/2008/EC, II, 3.2****· 2.3 Other hazards****· Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**· 3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

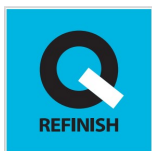
**· Dangerous components:**

CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-xxxx	dimethyl ether ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018	50-100%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-xxxx	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	10- <25%
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17-xxxx	Aliphatic polyisocyanate (HDI oligomers, isocyanurate) ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	10- <25%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-xxxx	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336, EUH066	10- <25%
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35-xxxx	Solvent naphtha (petroleum), light arom. benzene < 0,1 % ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335; STOT SE 3, H336	2.5- <5%
EC number: 905-588-0 Reg.nr.: 01-2119539452-40-xxxx	Reaction mass of ethylbenzene and xylene ⚠ 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; Aquatic Chronic 3, H412	1- <2.5%

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

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**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.
- **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 wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

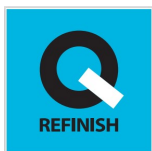
**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media -**
- **Suitable extinguishing agents:** Cool container with water
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
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:**  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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**SECTION 7: Handling and storage****· 7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

**· Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

**· 7.2 Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:**

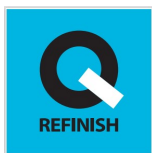
Observe official regulations on storing packagings with pressurised containers.

**· Information about storage in one common storage facility: Not required.****· Further information about storage conditions: None.****· 7.3 Specific end use(s) No further relevant information available.****SECTION 8: Exposure controls/personal protection****· 8.1 Control parameters****· Ingredients with limit values that require monitoring at the workplace:****115-10-6 dimethyl ether**WEL Short-term value: 958 mg/m<sup>3</sup>, 500 ppmLong-term value: 766 mg/m<sup>3</sup>, 400 ppm**141-78-6 ethyl acetate**WEL Short-term value: 1468 mg/m<sup>3</sup>, 400 ppmLong-term value: 734 mg/m<sup>3</sup>, 200 ppm**123-86-4 n-butyl acetate**WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppmLong-term value: 724 mg/m<sup>3</sup>, 150 ppm**· Regulatory information WEL: EH40/2020****· Additional information: The lists valid during the making were used as basis.****· 8.2 Exposure controls****· Appropriate engineering controls No further data; see section 7.****· Individual protection measures, such as personal protective equipment****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

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*Immediately remove all soiled and contaminated clothing*

*Wash hands before breaks and at the end of work.*

*Avoid contact with the eyes.*

*Avoid contact with the eyes and skin.*

· **Respiratory protection:**

*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*



*When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Half mask with combination filter, class A1P2 minimum, or breathing mask with outer air supply.*

· **Hand protection**

*Protective gloves*



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

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

· **Penetration time of glove material**

*Gloves must be changed after every contamination.*

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

*butyl rubber, 0,7mm*

· **Eyeface protection**

*Safety glasses*



*Tightly sealed goggles*

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

*Aerosol*

· **Colour:**

*According to product specification*

· **Odour:**

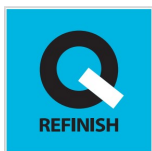
*Characteristic*

· **Odour threshold:**

*Not determined.*

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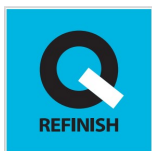
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· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	-24.9 °C (115-10-6 dimethyl ether)
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	1.2 Vol % (123-86-4 n-butyl acetate)
· <b>Upper:</b>	18.6 Vol % (115-10-6 dimethyl ether)
· <b>Flash point:</b>	<0 °C
· <b>Auto-ignition temperature:</b>	235 °C (115-10-6 dimethyl ether)
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	3,400 hPa (115-10-6 dimethyl ether)
· <b>Density and/or relative density</b>	
· <b>Relative density</b>	0.761 g/ml
· <b>Vapour density</b>	Not determined.
<b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Aerosol
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	88.9 % With propellant gas. Content given by weight.
· <b>VOC (EU)</b>	(<840g/l) 88.90 %
· <b>Solids content:</b>	11.2 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not applicable.
<b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Extremely flammable aerosol. Pressurised container: May burst if heated.

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· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

**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:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if inhaled.

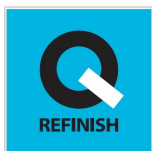
**· LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

Dermal	LD50	13,997 mg/kg
Inhalative	LC50/4 h	13.3 mg/l

- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **STOT-single exposure** May cause drowsiness or dizziness.

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**· 11.2 Information on other hazards****· Endocrine disrupting properties**

None of the ingredients is listed.

**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.**· 12.5 Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Ikke relevant.**· 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**· 12.7 Other adverse effects****· Remark:** Harmful to fish**· Additional ecological information:****· General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): 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

**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:** Disposal must be made according to official regulations.**SECTION 14: Transport information****· 14.1 UN number or ID number****· ADR, IMDG, IATA**

UN1950

**· 14.2 UN proper shipping name****· ADR**

1950 AEROSOLS

**· IMDG**

AEROSOLS

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· **IATA** *AEROSOLS, flammable*

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** *2 5F Gases.*

· **Label** *2.1*

· **IMDG, IATA**



· **Class** *2.1 Gases.*

· **Label** *2.1*

· **14.4 Packing group**

· **ADR, IMDG, IATA** *Void  
not classified*

· **14.5 Environmental hazards:**

· **Marine pollutant:** *No*

· **14.6 Special precautions for user**

· **Hazard identification number (Kemler code):** *Warning: Gases.*

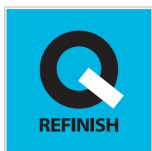
· **EMS Number:** *-*

· **Stowage Code** *not classified*

· **Segregation Code** *F-D,S-U*

*SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.  
SG69 For AEROSOLS with a maximum capacity of 1 litre:  
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.  
For AEROSOLS with a capacity above 1 litre:  
Segregation as for the appropriate subdivision of class 2.  
For WASTE AEROSOLS:  
Segregation as for the appropriate subdivision of class 2.*

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- |   |                                    |
|---|------------------------------------|
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> |                                    |
| Not applicable.   |                                    |
| · <b>Transport/Additional information:</b>                            |                                    |
| -----   |                                    |
| · <b>ADR</b>  |                                    |
| · <b>Limited quantities (LQ)</b>                                      | 1L                                 |
| · <b>Excepted quantities (EQ)</b>                                     | Code: E0                           |
|   | Not permitted as Excepted Quantity |
| · <b>Transport category</b>   | 2                                  |
| · <b>Tunnel restriction code</b>                                      | D                                  |
| -----   |                                    |
| · <b>IMDG</b>   |                                    |
| · <b>Limited quantities (LQ)</b>                                      | 1L                                 |
| · <b>Excepted quantities (EQ)</b>                                     | Code: E0                           |
|   | Not permitted as Excepted Quantity |
| · <b>UN "Model Regulation":</b>                                       | UN 1950 AEROSOLS, 2.1              |

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
VOC 2004/42/EG: <840g/l
- **Poisons Act**

**· Regulated explosives precursors**

None of the ingredients is listed.

**· Regulated poisons**

None of the ingredients is listed.

**· Reportable explosives precursors**

None of the ingredients is listed.

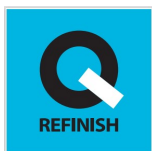
**· Reportable poisons**

None of the ingredients is listed.

**· Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P3a** FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

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· **National regulations:**· **Technical instructions (air):**

Class	Share in %
NK	50-100

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**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.*

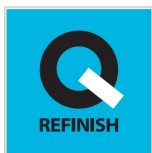
· **Relevant phrases**

H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
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.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
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.  
EUH018 In use may form flammable/explosive vapour-air mixture.  
EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH204 Contains isocyanates. May produce an allergic reaction.

· **Department issuing SDS:** Product safety department· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
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)  
LC50: Lethal concentration, 50 percent

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***Safety data sheet***  
***according to 1907/2006/EC, Article 31***

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**Trade name: Q 70-441 2K Solvent Prefill Spray**

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*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*ATE: Acute toxicity estimate values*

*Flam. Gas 1A: Flammable gases – Category 1A*

*Aerosol 1: Aerosols – Category 1*

*: Aerosols – Category 3*

*Press. Gas (Comp.): Gases under pressure – Compressed gas*

*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*

*Skin Sens. 1: Skin sensitisation – Category 1*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

*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.**