



# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Q-Protector  
Revision date : 19.06.2019  
Print date : 24.06.2019

Version (Revision) : 5.0.0 (4.0.2)

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

#### 1.1 Product identifier

Q-Protector

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

##### Relevant identified uses

Impregnation agent

#### 1.3 Details of the supplier of the safety data sheet

##### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Q-railing Europe GmbH & Co. KG

**Street :** Marie-Curie-Straße 8-14

**Postal code/city :** 46446 Emmerich am Rhein

**Telephone :** +49(0)2822 91569 0

**Telefax :** +49(0)2822 91569 390

**Information contact :** sales.de@q-railing.com

#### 1.4 Emergency telephone number

+49(0)228 19240 (GIZ Bonn) during normal office hours

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [CLP]

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

###### Hazard pictograms



Health hazard (GHS08) · Exclamation mark (GHS07)

###### Signal word

Danger

###### Hazard components for labelling

WHITE MINERAL OIL (PETROLEUM) ; CAS No. : 8042-47-5

###### Hazard statements

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

###### Precautionary statements

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/....

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

P331 Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

###### Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

#### 2.3 Other hazards

None

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous ingredients

WHITE MINERAL OIL (PETROLEUM) ; REACH registration No. : 01-2119487078-27-XXXX ; EC No. : 232-455-8; CAS No. : 8042-47-5

Weight fraction :  $\geq 50 - < 100$  %  
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

2-(2-BUTOXYETHOXY)ETHANOL ; REACH registration No. : 01-2119475104-44-XXXX ; EC No. : 203-961-6; CAS No. : 112-34-5

Weight fraction :  $\geq 25 - < 50$  %  
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

ISOTRIDECANOL, ETHOXYLATED ( $\geq 2.5$  EO) ; REACH registration No. : (Polymer) ; EC No. : 931-138-8; CAS No. : 69011-36-5

Weight fraction :  $\geq 1 - < 5$  %  
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

##### Additional information

Full text of H- and EUH-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

When in doubt or if symptoms are observed, get medical advice.

##### Following inhalation

In case of respiratory tract irritation, consult a physician. Remove casualty to fresh air and keep warm and at rest.

##### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

##### After eye contact

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

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

May be fatal if swallowed and enters airways. Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.

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

None

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Sand Nitrogen Extinguishing blanket

##### Unsuitable extinguishing media

Full water jet

#### 5.2 Special hazards arising from the substance or mixture

##### Hazardous combustion products

Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

#### 5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4 Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool

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endangered containers. 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

Special danger of slipping by leaking/spilling product.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3 Methods and material for containment and cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Keep container tightly closed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against Frost

##### Hints on joint storage

Storage class (TRGS 510) : 10

##### Further information on storage conditions

P405 - Store locked up.

#### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use. Observe instructions for use.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational exposure limit values

WHITE MINERAL OIL (PETROLEUM) ; CAS No. : 8042-47-5

Limit value type (country of origin) : TRGS 900 ( D )  
Parameter : A: respirable fraction  
Limit value : 5 mg/m<sup>3</sup>  
Peak limitation : 4(II)  
Remark : Y  
Version : 07.06.2018

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 67 mg/m<sup>3</sup>  
Peak limitation : 1,5(I)  
Remark : Y  
Version : 07.06.2018

Limit value type (country of origin) : STEL ( EC )

Limit value : 15 ppm / 101,2 mg/m<sup>3</sup>  
Version : 31.01.2018

Limit value type (country of origin) : TWA ( EC )

Limit value : 10 ppm / 67,5 mg/m<sup>3</sup>  
Version : 31.01.2018

##### DNEL/DMEL and PNEC values

DNEL/DMEL

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Limit value type : DNEL worker (local) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 67,5 mg/m<sup>3</sup>

Limit value type : DNEL worker (local) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 101,2 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 67,5 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 20 mg/kg

Limit value type : DNEL worker (systemic) ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5 EO ) ; CAS No. : 69011-36-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 294 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5 EO ) ; CAS No. : 69011-36-5 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 2080 mg/kg

### 8.2 Exposure controls

#### Personal protection equipment

##### Eye/face protection



Wear suitable safety goggles in case of splash.

##### Suitable eye protection

EN 166.

##### Skin protection

##### Hand protection



Wear protective gloves in case of longer lasting skin contact.

**Suitable gloves type** : EN 374.

**Suitable material** : NBR (Nitrile rubber)

**Breakthrough time (maximum wearing time)** : 480 min.

**Thickness of the glove material** : 0.4 mm

**Remark** : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

##### Respiratory protection



Respiratory protection necessary at: exceeding exposure limit values

##### Suitable respiratory protection apparatus

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Combination filtering device (EN 14387)  
Type : A

### Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### General health and safety measures

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

### 8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** Liquid

**Colour :** clear

**Odour :** characteristic

#### Safety relevant basis data

Flash point :		approx.	130	°C
Ignition temperature :			not relevant	
Lower explosion limit :			not relevant	
Upper explosion limit :			not relevant	
Vapour pressure :	( 50 °C )	<	0,1	hPa
Density :	( 20 °C )	approx.	0,86	g/cm <sup>3</sup>
pH :			not applicable	
Cinematic viscosity :	( 40 °C )		13,1	mm <sup>2</sup> /s
Maximum VOC content (EC) :			0	Wt %
Maximum VOC content (Switzerland) :			33	Wt %

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

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### Acute oral toxicity

Parameter : ATEmix calculated  
Exposure route : Oral  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( WHITE MINERAL OIL (PETROLEUM) ; CAS No. : 8042-47-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 5000 mg/kg  
Method : OECD 401  
Parameter : LD50 ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5 EO) ; CAS No. : 69011-36-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 5000 mg/kg  
Method : OECD 423  
Parameter : LD50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Oral  
Species : Mouse  
Effective dose : 5530 mg/kg  
Method : OECD 401

### Acute dermal toxicity

Parameter : ATEmix calculated  
Exposure route : Dermal  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( WHITE MINERAL OIL (PETROLEUM) ; CAS No. : 8042-47-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5 EO) ; CAS No. : 69011-36-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2764 mg/kg  
Method : OECD 402

### Acute inhalation toxicity

Parameter : ATEmix calculated  
Exposure route : Inhalation  
Effective dose : > 20 mg/l  
Parameter : LC50 ( WHITE MINERAL OIL (PETROLEUM) ; CAS No. : 8042-47-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 5000 mg/m<sup>3</sup>  
Exposure time : 4 h  
Method : OECD 403

### Irritant and corrosive effects

#### Primary irritation to the skin

No further relevant information available.

#### Irritation to eyes

No further relevant information available.

### Sensitisation

#### In case of skin contact

No further relevant information available.

#### In case of inhalation

No further relevant information available.

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## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

No further relevant information available.

### Germ cell mutagenicity

No further relevant information available.

### Reproductive toxicity

No further relevant information available.

## STOT-single exposure

No further relevant information available.

## STOT-repeated exposure

No further relevant information available.

## Aspiration hazard

No further relevant information available.

## 11.2 Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

## 11.3 Other adverse effects

Has degreasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

## 11.4 Additional information

Preparation not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter :	LC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )
Species :	Lepomis macrochirus (Bluegill)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1300 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( WHITE MINERAL OIL (PETROLEUM) ; CAS No. : 8042-47-5 )
Species :	Leuciscus idus (golden orfe)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	96 h
Evaluation :	Harmless to fish up to the concentration tested.
Method :	OECD 203
Parameter :	LC50 ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5 EO ) ; CAS No. : 69011-36-5 )
Species :	Cyprinus carpio (Common Carp)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1 - 10 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( WHITE MINERAL OIL (PETROLEUM) ; CAS No. : 8042-47-5 )
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	> 100 mg/l
Exposure time :	48 h
Evaluation :	Harmless to daphnia up to the tested concentration.
Method :	OECD 202
Parameter :	EC50 ( WHITE MINERAL OIL (PETROLEUM) ; CAS No. : 8042-47-5 )
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Chronic (long-term) daphnia toxicity
Effective dose :	> 1000 mg/l
Exposure time :	21 d

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Method : OECD 211

**Chronic (long-term) fish toxicity**

Parameter : NOEC ( ISOTRIDEKANOL, ETHOXYLATED ( >= 2.5 EO ) ; CAS No. : 69011-36-5 )  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 1,73 mg/l

**Acute (short-term) daphnia toxicity**

Parameter : EC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 202

Parameter : EC50 ( ISOTRIDEKANOL, ETHOXYLATED ( >= 2.5 EO ) ; CAS No. : 69011-36-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 1 - 10 mg/l  
Exposure time : 48 h  
Method : OECD 202

**Acute (short-term) algae toxicity**

Parameter : EC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 201

Parameter : EC50 ( ISOTRIDEKANOL, ETHOXYLATED ( >= 2.5 EO ) ; CAS No. : 69011-36-5 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1 - 10 mg/l  
Exposure time : 72 h  
Method : OECD 201

**Bacteria toxicity**

Parameter : EC50 ( WHITE MINERAL OIL (PETROLEUM) ; CAS No. : 8042-47-5 )  
Species : Bacteria toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 40 h

Parameter : EC50 ( ISOTRIDEKANOL, ETHOXYLATED ( >= 2.5 EO ) ; CAS No. : 69011-36-5 )  
Species : Bacteria toxicity  
Effective dose : 140 mg/l

Parameter : EC10 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Bacteria toxicity  
Effective dose : > 1995 mg/l  
Exposure time : 30 min

## 12.2 Persistence and degradability

### Biodegradation

Parameter : Biodegradation ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Inoculum : Biodegradation  
Degradation rate : 90 - 100 %  
Test duration : 14 d  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301E

Parameter : Biodegradation ( WHITE MINERAL OIL (PETROLEUM) ; CAS No. : 8042-47-5 )  
Inoculum : Degree of elimination  
Evaluation parameter : Aerobic  
Degradation rate : 24 %  
Test duration : 28 d  
Method : OECD 301B

Parameter : Biodegradation ( ISOTRIDEKANOL, ETHOXYLATED ( >= 2.5 EO ) ; CAS No. : 69011-36-5 )



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Inoculum :	Degree of elimination
Evaluation parameter :	Anaerobic
Degradation rate :	> 60 %
Test duration :	60 d
Method :	OECD 311
Parameter :	Biodegradation ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )
Inoculum :	Biodegradation
Degradation rate :	90 - 100 %
Test duration :	8 d
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 302B
Parameter :	CO <sub>2</sub> formation (% of the theoretical value) ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5 EO ) ; CAS No. : 69011-36-5 )
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	> 60 %
Test duration :	28 d
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301B

According to the recipe, contains no AOX. The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

### 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. List of proposed waste codes/waste designations in accordance with EWC

### 13.1 Waste treatment methods

#### Product/Packaging disposal

##### Waste codes/waste designations according to EWC/AVV

###### Waste code product

07 06 99 - wastes not otherwise specified.

###### Waste code packaging

15 01 02 - plastic packaging.

##### Waste treatment options

###### Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

###### Other disposal recommendations

P501 - Dispose of contents/container to industrial incineration plant.

### 13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

## SECTION 14: Transport information

### 14.1 UN number

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- No dangerous good in sense of these transport regulations.
- 14.2 UN proper shipping name**  
No dangerous good in sense of these transport regulations.
- 14.3 Transport hazard class(es)**  
No dangerous good in sense of these transport regulations.
- 14.4 Packing group**  
No dangerous good in sense of these transport regulations.
- 14.5 Environmental hazards**  
No dangerous good in sense of these transport regulations.
- 14.6 Special precautions for user**  
None
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**  
No transport as bulk according to IBC Code.

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- EU legislation**
- Authorisations and/or restrictions on use**
- Restrictions on use**  
Use restriction according to REACH annex XVII, no. : 3, 55
- Restrictions of occupation**  
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- National regulations**  
AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).  
CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.
- Water hazard class (WGK)**  
Classification according to AwSV - Class : 1 (Slightly hazardous to water)
- 15.2 Chemical safety assessment**  
For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

- 16.1 Indication of changes**  
03. Hazardous ingredients · 08. Occupational exposure limit values · 08. DNEL/DMEL · 15. Restrictions on use
- 16.2 Abbreviations and acronyms**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)  
AOX: adsorbierbare organisch gebundene Halogene  
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen  
CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)  
CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)  
EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung  
ECHA: Europäische Chemikalienagentur (European Chemicals Agency)  
EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)  
GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)  
IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)  
ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)  
IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)  
RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le

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transport international ferroviaire de marchandises dangereuses)  
TRGS: Technische Regel für den Umgang mit Gefahrstoffen  
VbF: Verordnung über brennbare Flüssigkeiten  
VOC: flüchtige organische Verbindung (volatile organic compound)  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

### 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank  
ECHA: Classification And Labelling Inventory  
ECHA: Pre-registered Substances  
ECHA: Registered Substances  
EC\_Safety Data Sheet of Suppliers  
ESIS: European Chemical Substances Information System  
GDL: Gefahrstoffdatenbank der Länder  
UBA Rigoletto: Wassergefährdende Stoffe  
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council  
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

### 16.6 Training advice

None

### 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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