

Trade name: RONOL Thread Cutting Oil

Product no.: 65010, 65011, 65010a

Current version : 1.0.0, issued: 26.08.2019

Replaced version: -, issued: -

Region: IE

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

1.1 Product identifier

Trade name

RONOL Thread Cutting Oil

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

Relevant identified uses of the substance or mixture

Metalworking oil

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

ROTHENBERGER Werkzeuge GmbH
Industriestraße 7
65779 Kelkheim

Telephone no. +49 (0) 61 95 / 800 - 1
Fax no. +49 (0) 6195 / 800 - 3500
e-mail info@rothenberger.com

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

+353 1 809 2166 (National Poisons Information Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Chronic 3; H412

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms

-

Signal word

-

Hazard statement(s)

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P273 Avoid release to the environment.
P501 Dispose of contents/container to a facility in accordance with local/regional/national/international regulations.

2.3 Other hazards

No data available.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

| No | Substance name | Additional information | |
|----|--|--|--------------------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration |
| | | | % |
| 1 | Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic | | |
| | 64742-54-7 265-157-1 649-467-00-8 - | Asp. Tox. 1; H304 | < 100,00 %-b.w. |
| 2 | Phenol, isopropylated, phosphate (3:1) | | |
| | 68937-41-7 273-066-3 - 01-2119535109-41 | Aquatic Chronic 4; H413 Repr. 2; H361fd STOT RE 2; H373o | < 2,50 %-b.w. |
| 3 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | | |
| | 95-38-5 202-414-9 - 01-2119777867-13 | Acute Tox. 4; H302 Skin Corr. 1C; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318 | < 2,50 %-b.w. |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|-------------------------------|------------------|--------------------|
| 3 | - | - | M = 10 | - |

| No | Route, target organ, concrete effect |
|----|---|
| 2 | H361 oral; -, - H373o oral; -, - |
| 3 | H373o oral; -, - |

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Adhere to personal protective measures when giving first aid. Remove contaminated clothing and shoes and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation

Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if pain still persists.

4.2 Most important symptoms and effects, both acute and delayed

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Gastrointestinal complaints

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide; Extinguishing powder; Water spray jet; Fight big fire with directed water spray or Alcohol-resistant foam

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixtureIn the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x); Sulphur oxides (S_xO_y)**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. pay attention to backfire. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. High risk of slipping due to leakage/spillage of product.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, kieselguhr, acid binder, universal binder, sawdust). When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

Information regarding safe handling, see chapter 7. Information regarding personal protective measures, see chapter 8. Information regarding waste disposal, see chapter 13.

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

Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art. Avoid formation of oil dust.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale vapours. Remove soiled or soaked clothing immediately.

Advice on protection against fire and explosion

Take precautionary measures against static charges.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

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Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Incompatible products

Substances to be avoided, pls. See chapter 10. Do not store together with: spontaneously combusting substances; Materials in contact with water emit flammable gases.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

| No | Substance name | | | CAS / EC no |
|----|--|---------------------|----------|--------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | Phenol, isopropylated, phosphate (3:1) | | | 68937-41-7 273-066-3 |
| | dermal | Long term (chronic) | systemic | 0,416 mg/kg/day |
| | dermal | Short term (acut) | systemic | 2000,00 mg/kg/day |
| | dermal | Short term (acut) | local | 16,00 mg/cm ² |
| | inhalative | Long term (chronic) | systemic | 0,145 mg/m ³ |
| | inhalative | Short term (acut) | systemic | 700,00 mg/m ³ |
| 2 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | | | 95-38-5 202-414-9 |
| | dermal | Long term (chronic) | systemic | 0,06 mg/kg/day |
| | dermal | Short term (acut) | systemic | 2 mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 0,46 mg/m ³ |
| | inhalative | Short term (acut) | systemic | 14 mg/m ³ |

DNEL value (consumer)

| No | Substance name | | | CAS / EC no |
|----|--|---------------------|----------|--------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | Phenol, isopropylated, phosphate (3:1) | | | 68937-41-7 273-066-3 |
| | oral | Long term (chronic) | systemic | 0,04 mg/kg/day |
| | oral | Short term (acut) | systemic | 50,00 mg/kg/day |
| | dermal | Long term (chronic) | systemic | 0,208 mg/kg/day |
| | dermal | Short term (acut) | systemic | 100,00 mg/kg/day |
| | dermal | Short term (acut) | local | 8,00 mg/cm ² |
| | inhalative | Long term (chronic) | systemic | 0,07 mg/m ³ |
| | inhalative | Short term (acut) | systemic | 350,00 mg/m ³ |

PNEC values

| No | Substance name | | CAS / EC no |
|----|--|-----------------------|-------------------------|
| | ecological compartment | Type | Value |
| 1 | Phenol, isopropylated, phosphate (3:1) | | 68937-41-7 273-066-3 |
| | water | fresh water | 0,00031 mg/L |
| | water | marine water | 0,000031 mg/L |
| | water | fresh water sediment | 0,185 mg/kg |
| | with reference to: dry weight | | |
| | water | marine water sediment | 0,018 mg/kg |
| | with reference to: dry weight | | |
| | soil | - | 2,50 mg/kg |
| | with reference to: dry weight | | |
| | sewage treatment plant | - | 100,00 mg/L |
| | secondary poisoning | - | 1,85 mg/kg |
| | with reference to: dry weight | | |

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| | | | |
|---|--|-----------------------|------------------------|
| 2 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | | 95-38-5 202-414-9 |
| | water | fresh water | 0 mg/L |
| | water | marine water | 0 mg/L |
| | water | fresh water sediment | 0,376 mg/kg dry weight |
| | water | marine water sediment | 0,038 mg/kg dry weight |
| | sewage treatment plant | - | 0,27 mg/L |

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respiratory filter (gas) : ABEK

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

Breakthrough time >= 480 min

Appropriate Material chloroprene

Other

Chemical-resistant work clothes. Protective shoes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|----------|
| Form/Colour | |
| liquid | |
| colourless | |
| Odour | |
| characteristic | |
| Odour threshold | |
| No data available | |
| pH value | |
| No data available | |
| Boiling point / boiling range | |
| No data available | |
| Melting point / melting range | |
| No data available | |
| Decomposition point / decomposition range | |
| No data available | |
| Dropping point | |
| Value | < -18 °C |

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| | | | |
|--|--|------------------------------|-----------|
| Source | | supplier | |
| Flash point | | | |
| Value | | > 190 °C | |
| Source | | supplier | |
| Auto-ignition temperature | | | |
| Source | | supplier | |
| Comments | | Product is not selfigniting. | |
| Oxidising properties | | | |
| No data available | | | |
| Explosive properties | | | |
| This product is not explosive. In and after use danger of production of inflammable compounds. | | | |
| Flammability (solid, gas) | | | |
| No data available | | | |
| Lower flammability or explosive limits | | | |
| No data available | | | |
| Upper flammability or explosive limits | | | |
| No data available | | | |
| Vapour pressure | | | |
| No data available | | | |
| Vapour density | | | |
| No data available | | | |
| Evaporation rate | | | |
| No data available | | | |
| Relative density | | | |
| No data available | | | |
| Density | | | |
| Value | | 0,87 g/cm³ | |
| Reference temperature | | 20 °C | |
| Source | | supplier | |
| Solubility in water | | | |
| Source | | supplier | |
| Comments | | insoluble | |
| Solubility(ies) | | | |
| No data available | | | |
| Partition coefficient: n-octanol/water | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 273-066-3 |
| log Pow | | 4,92 - 5,17 | |
| Source | | ECHA | |
| Viscosity | | | |
| Value | | 21 mm²/s | |
| Reference temperature | | 40 °C | |
| Source | | supplier | |
| Solvent content | | | |
| Value | | 0 % | |

9.2 Other information

| |
|--------------------------|
| Other information |
| No data available. |

SECTION 10: Stability and reactivity

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10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

| Acute oral toxicity | | | |
|---------------------|--|------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 273-066-3 |
| LD50 | > | 5000 | mg/kg bodyweight |
| Species | rat | | |
| Source | ECHA | | |
| 2 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | 95-38-5 | 202-414-9 |
| LD50 | | 1265 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 401 | | |
| Source | ECHA | | |

| Acute dermal toxicity | | | |
|-----------------------|--|------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 273-066-3 |
| LD50 | > | 10000 | mg/kg bodyweight |
| Species | rabbit | | |
| Method | EPA 16 CFR 1500.40 | | |
| Source | ECHA | | |

| Acute inhalational toxicity | | | |
|-----------------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 273-066-3 |
| LC50 | > | 200 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Vapour | | |
| Species | rat | | |
| Source | ECHA | | |

| Skin corrosion/irritation | | | |
|---------------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 273-066-3 |
| Species | rabbit | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |
| 2 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | 95-38-5 | 202-414-9 |
| Duration of exposure | | 4 | h |
| Species | rabbit | | |
| Method | OECD 404 | | |
| Source | ECHA | | |
| Evaluation | corrosive | | |

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| Serious eye damage/irritation | | | |
|-------------------------------|--|--------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 273-066-3 |
| Species | | rabbit | |
| Source | | ECHA | |
| Evaluation | | non-irritant | |

| Respiratory or skin sensitisation | |
|-----------------------------------|--|
| No data available | |

| Germ cell mutagenicity | | | |
|---------------------------|--|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 273-066-3 |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Reproduction toxicity | | | |
|---------------------------|--|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 273-066-3 |
| Route of exposure | | oral | |
| Species | | rats (male/female) | |
| Method | | OECD 421 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are met. | |

| Carcinogenicity | |
|-------------------|--|
| No data available | |

| STOT - single exposure | |
|------------------------|--|
| No data available | |

| STOT - repeated exposure | | | |
|--------------------------|--|---|------------|
| No | Substance name | CAS no. | EC no. |
| 1 | Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 273-066-3 |
| Route of exposure | | oral | |
| NOEC | | < 25 | mg/kg |
| Duration of exposure | | 13 | week/s |
| Target organ | | adrenal gland | |
| Method | | OECD 408 | |
| Source | | ECHA | |
| Effects | | May cause damage to organs through prolonged or repeated exposure | |
| 2 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | 95-38-5 | 202-414-9 |
| Route of exposure | | oral | |
| NOAEL | | 20 | mg/kg bw/d |
| Species | | rat | |
| Target organ | | gastro-intestinal tract, thymus | |
| Method | | OECD 422 | |
| Source | | ECHA | |

| Aspiration hazard | |
|-------------------|--|
| No data available | |

SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish (acute) | | | | |
|--------------------------|--|-------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. | |
| 1 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | 95-38-5 | 202-414-9 | |
| LC50 | | 0,25 | - | 0,37 mg/l |
| Duration of exposure | | | 96 | h |
| Species | | Danio rerio | | |
| Method | | OECD 203 | | |
| Source | | ECHA | | |

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| Toxicity to fish (chronic) | | | |
|----------------------------|--|--|--|
| No data available | | | |

| Toxicity to Daphnia (acute) | | | |
|-----------------------------|--|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | 95-38-5 | 202-414-9 |
| EC50 | | 0,163 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Method | OECD 202 | | |
| Source | ECHA | | |

| Toxicity to Daphnia (chronic) | | | |
|-------------------------------|--|--|--|
| No data available | | | |

| Toxicity to algae (acute) | | | |
|---------------------------|--|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | 95-38-5 | 202-414-9 |
| EC50 | | 0,03 | mg/l |
| Duration of exposure | | 72 | h |
| Species | Desmodesmus subspicatus | | |
| Method | OECD 201 | | |
| Source | ECHA | | |

| Toxicity to algae (chronic) | | | |
|-----------------------------|--|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | 95-38-5 | 202-414-9 |
| NOEC | | 0,011 | mg/l |
| Duration of exposure | | 72 | h |
| Species | Green algae | | |
| Method | OECD 201 | | |
| Source | ECHA | | |

| Bacteria toxicity | | | |
|-------------------|--|--|--|
| No data available | | | |

12.2 Persistence and degradability

| Biodegradability | | | |
|------------------|--|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | 95-38-5 | 202-414-9 |
| Type | aerobic biodegradation | | |
| Value | | 1 | % |
| Duration | | 28 | day(s) |
| Method | OECD 301 B | | |
| Source | ECHA | | |
| Evaluation | not readily biodegradable | | |

12.3 Bioaccumulative potential

| Bioconcentration factor (BCF) | | | |
|-------------------------------|--|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | 95-38-5 | 202-414-9 |
| BCF | | 2,57 | |
| Method | QSAR | | |
| Source | ECHA | | |

| Partition coefficient: n-octanol/water | | | |
|--|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 273-066-3 |
| log Pow | | 4,92 | - 5,17 |
| Source | ECHA | | |

12.4 Mobility in soil

No data available.

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No data available.

12.6 Other adverse effects

No data available.

12.7 Other information**Other information**

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU regulations**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

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| |
|---|
| The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII. |
|---|

| |
|------|
| No 3 |
|------|

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

| |
|--|
| This product is not subject to Part 1 or 2 of Annex I. |
|--|

Other regulations

| |
|--|
| Adhere to the national sanitary and occupational safety regulations when using this product. |
|--|

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure

H373o May cause damage to organs through prolonged or repeated exposure if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

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