

ULTRASIL FLUID

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|---------------|--------------|---------|-----|
| Creation date | 29. May 2019 | Version | 1.0 |
| Revision date | | | |

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

- 1.1. Product identifier**
Substance / mixture
ULTRASIL FLUID
mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Grease for high pressure and low friction
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
- Distributor**
Name or trade name
CERTA TRADE spol. s r.o.
Address
Limbašská cesta 4, Pezinok, 90203
Slovakia
Identification number (CRN)
46060898
VAT Reg No
2023255476
Phone
+421 33 642 30 17
E-mail
certatrade@certatrade.sk
Web address
www.certatrade.sk
- Importer**
Name or trade name
CERTA TRADE spol. s r.o.
Address
Limbašská cesta 4, Pezinok, 90203
Slovakia
Identification number (CRN)
46060898
VAT Reg No
2023255476
Phone
+421 33 642 30 17
E-mail
certatrade@certatrade.sk
Web address
www.certatrade.sk
- Manufacturer**
Name or trade name
AEROTEC GROUP a.s.
Address
U Kříže 632/24, Praha 5 Jinonice, 158 00
Czech Republic
Identification number (CRN)
05121311
Phone
+420 605 050 050
E-mail
info@aerotec.cz
- Competent person responsible for the safety data sheet**
Name
AEROTEC GROUP a.s.
E-mail
info@aerotec.cz
- 1.4. Emergency telephone number**
National Poisons Information Service Edinburgh, Royal Infirmary of Edinburgh, Little France Crescent, Edinburgh, EH16 4SA, tel.: +44 131 242 1383. National poisoning information centre UK, tel.: +44 844 892 0111. National Poisons Information Service Ireland, tel.: +353 1 809 2566. National poisoning information centre Scotland, tel.: 08454 242424 or 111.

SECTION 2: Hazards identification

- 2.1. Substance or mixture classification**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Asp. Tox. 1, H304

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

[A complex combination of hydrocarbons from the distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers in the range of C15-C39 and boiling in the range of approximately 260 °C to 600 °C (500 °F to 1112 °F).]

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P301+P310 IF SWALLOWED: Immediately call a.
 P331 Do NOT induce vomiting.
 P405 Store locked up.
 P501 Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

Supplemental information

EUH 208 Contains polysulfides, di-tert-Bu, reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 branched, benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note. |
|--|---|---------------------|--|---------|
| CAS: 68037-01-4 EC: 500-183-1 | dec-1-ene, homopolymer, hydrogenated | 10-20 | | |
| Index: 649-453-00-1 CAS: 64741-76-0 EC: 265-077-7 Registration number: 01-2119486951-26 | [A complex combination of hydrocarbons from the distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers in the range of C15-C39 and boiling in the range of approximately 260 °C to 600 °C (500 °F to 1112 °F).] | <5 | Asp. Tox. 1, H304 | 1, 2, 3 |
| CAS: 68937-96-2 EC: 273-103-3 | polysulfides, di-tert-Bu | <1 | Skin Sens. 1, H317 Aquatic Chronic 3, H412 | |

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| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note. |
|---|---|---------------------|--|-------|
| CAS: 12001-85-3 EC: 234-409-2 | naphthenic acids, zinc salts | <1 | | |
| CAS: 90480-91-4 EC: 291-829-9 | phenol, 2,2'-polythiobis[4-C8-30-alkyl derivs., calcium salts, overbased | <1 | Aquatic Chronic 4, H413 | |
| CAS: 4259-15-8 EC: 224-235-5 | zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate) | <1 | Aquatic Chronic 2, H411 | |
| CAS: 68649-42-3 EC: 272-028-3 | phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | <1 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 | |
| CAS: 69011-36-5 EC: 500-241-6 Registration number: 01-2119976362-32 | isotridecanol, ethoxylated | <1 | Acute Tox. 4, H302 Eye Dam. 1, H318 | |
| CAS: 112-90-3 EC: 204-015-5 | (z)-octadec-9-enylamine | <1 | Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400, M=10 Aquatic Chronic 1, H410, M=10 | |
| EC: 931-384-6 Registration number: 01-2119493620-38 | reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 branched | <1 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 2, H411 | 2 |
| EC: 939-603-7 Registration number: 01-2119978241-36 | benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | <1 | Skin Sens. 1, H317 | 2 |
| CAS: 85117-47-1 EC: 285-597-8 Registration number: 01-2119985162-35 | benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts | <0,1 | Skin Sens. 1, H317 | 2 |

Notes

- Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.
- Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.
- Fulfilled Note L

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

Inhalation

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

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Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

Ingestion

DO NOT INDUCE VOMITING! If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Provide medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

Cough, headache.

Skin contact

Not expected.

Eye contact

Not expected.

Ingestion

Irritation, nausea.

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

Symptomatic treatment.

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

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage
7.1. Precautions for safe handling

Do not inhale aerosols. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters

none

DNEL

reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 branched

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|------------------------|-----------------------|--------------------|
| Workers | Dermal | 12.5 mg/kg | Local chronic effects | |
| Consumers | Dermal | 6.25 mg/kg | Local chronic effects | |
| Workers | Inhalation | 8.56 mg/m ³ | Local chronic effects | |
| Consumers | Inhalation | 2.2 mg/m ³ | Local chronic effects | |
| Consumers | Oral | 0.25 mg/kg/24hour | Local chronic effects | |

PNEC

reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 branched

| Route of exposure | Value | Determining method |
|------------------------|--------------|--------------------|
| Freshwater environment | 0.0012 mg/l | |
| Seawater | 0.00012 mg/l | |
| Freshwater sediment | 3.13 mg/kg | |
| Sea sediments | 0.313 mg/kg | |
| Soil (agricultural) | 2.54 mg/kg | |

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Mask with a filter against organic vapours in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|--|---------------------------|
| Appearance | liquid |
| Physical state | liquid at 20°C |
| color | brown |
| Odour | characteristic, petroleum |
| Odour threshold | data not available |
| pH | data not available |
| Melting point/freezing point | data not available |
| Initial boiling point and boiling range | data not available |
| Flash point | data not available |
| Evaporation rate | data not available |
| Flammability (solid, gas) | data not available |
| Upper/lower flammability or explosive limits | |
| flammability limits | data not available |
| explosive limits | data not available |
| Vapour pressure | data not available |
| Vapour density | data not available |
| Relative density | data not available |
| Solubility(ies) | |
| solubility in water | data not available |
| solubility in fats | data not available |
| Partition coefficient: n-octanol/water | data not available |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| Viscosity | data not available |
| Explosive properties | data not available |
| Oxidising properties | data not available |

9.2. Other information

| | |
|----------------------|--------------------|
| Density | data not available |
| ignition temperature | data not available |

SECTION 10: Stability and reactivity**10.1. Reactivity**

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

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

No toxicological data is available for the mixture.

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Acute toxicity

Based on available data the classification criteria are not met.

dec-1-ene, homopolymer, hydrogenated

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|----------|-------------|------------------|---------|-----|
| Oral | LD ₅₀ | OECD 423 | >5000 mg/kg | | Rat | F/M |
| Inhalation | LC ₅₀ | OECD 403 | >5.2 mg/l | 4 hour | Rat | F/M |

naphthenic acids, zinc salts

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|--------|------------|------------------|---------|-----|
| Oral | LD ₅₀ | | 4920 mg/kg | | Rat | |

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information
12.1. Toxicity
Acute toxicity

Data for the mixture are not available.

phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

| Parameter | Method | Value | Time of exposure | Species | Environment | Determining method |
|------------------|--------|------------|------------------|------------------------------|-------------|--------------------|
| LC ₅₀ | | 1-5 mg/l | 96 hour | Fishes (Pimephales promelas) | | Static system |
| LC ₅₀ | | 10-35 mg/l | 96 hour | Fishes (Pimephales promelas) | | Static system |

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14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not available

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree No. 361/2007 Coll., determining conditions of occupational health protection as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination and implementation of certain other provisions of the Air Protection Act as amended. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Guidelines for safe handling used in the safety data sheet

| | |
|-----------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P301+P310 | IF SWALLOWED: Immediately call a. |
| P331 | Do NOT induce vomiting. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier. |

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A list of additional standard phrases used in the safety data sheet

EUH 208 Contains polysulfides, di-tert-Bu, reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 branched, benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|---------------------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC | Identification code for each substance listed in EINECS |
| EC ₅₀ | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| IC ₅₀ | Concentration causing 50% blockade |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| LOAEC | Lowest observed adverse effect concentration |
| LOAEL | Lowest observed adverse effect level |
| log K _{ow} | Octanol-water partition coefficient |
| MARPOL | International Convention for the Prevention of Pollution From Ships |
| NOAEC | No observed adverse effect concentration |
| NOAEL | No observed adverse effect level |
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Hazardous to the aquatic environment |
| Aquatic Chronic | Hazardous to the aquatic environment |
| Asp. Tox. | Aspiration hazard |

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| | |
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| Eye Dam. | Serious eye damage |
| Flam. Liq. | Flammable liquid |
| Skin Corr. | Skin corrosion |
| Skin Irrit. | Skin irritation |
| Skin Sens. | Skin sensitization |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.