

PLASTIC FILLER

Creation date 28. January 2019
Revision date Version 2.0

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

- 1.1. Product identifier**
Substance / mixture PLASTIC FILLER
mixture
Number 1 35119
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
mixture's intended use Plastic filler.
Mixture uses advised against not available
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name RETECH, s.r.o.
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (CRN) 25018205
Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com
- Competent person responsible for the safety data sheet**
Name RETECH, s.r.o.
E-mail info@retech.cz
- 1.4. Emergency telephone number**
RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

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.

Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT RE 1, H372
Aquatic Chronic 3, H412

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

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

2.2. Label elements**Hazard pictogram****Signal word**

Danger

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Hazardous substances

styrene

Hazard statements

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- 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.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe vapours.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P314 Get medical advice/attention if you feel unwell.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container to in accordance with national regulations.

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. |
|---|-----------------------------|---------------------|--|-------|
| Index: 601-026-00-0 CAS: 100-42-5 EC: 202-851-5 Registration number: 01-2119457861-32 | styrene | <12,5 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 1, H372 | |
| Index: 030-011-00-6 CAS: 7779-90-0 EC: 231-944-3 Registration number: 01-2119485044-40-0000 | trizinc bis(orthophosphate) | 1-5 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | |

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

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

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

Skin contact

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. Provide medical treatment, specialized if possible.

Ingestion

Provide medical treatment if the person has any health problems.

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

Breathing problems, dizziness, headaches, nausea.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye irritation.

Ingestion

Irritation, nausea.

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

If swallowed, gastric irrigation with added, activated carbon.

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

Alcohol-resistant foam, carbon dioxide, powder, 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.

5.3. Advice for firefighters

Do not breathe smoke. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations.

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

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Prevent contact with skin and eyes.

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.

6.3. Methods and material for containment and cleaning up

Provide sufficient ventilation. 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.

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6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Store in tightly closed containers in a cool, dry place intended for this purpose. Keep away from sources of heating, ignition and direct sunlight. Use only outdoors or in a well-ventilated area. Ensure good ventilation/exhaustion at the workplace. Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original container. Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Keep container tightly closed. Do not store together with food, drink and animal feed. Protect against strong oxidizing agents.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

United Kingdom of Great Britain and Northern Ireland

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|----------------------------|------|------------------|------------------------|------|--------|
| styrene (CAS: 100-42-5) | WEL | 8 hours | 430 mg/m ³ | | GBR |
| | WEL | 15 minutes | 1080 mg/m ³ | | |
| | WEL | 8 hours | 100 ppm | | |
| | WEL | 15 minutes | 250 ppm | | |

DNEL

styrene

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|--------------------------|--------------------------|--------------------|
| Workers | Inhalation | 85 mg/m ³ | Systemic chronic effects | |
| Workers | Inhalation | 289 mg/m ³ | Systemic acute effects | |
| Workers | Inhalation | 306 mg/m ³ | Local acute effects | |
| Workers | Dermal | 406 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 10.2 mg/m ³ | Systemic chronic effects | |
| Consumers | Inhalation | 174.25 mg/m ³ | Systemic acute effects | |
| Consumers | Inhalation | 182.75 mg/m ³ | Local acute effects | |
| Consumers | Dermal | 343 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 2.1 mg/kg bw/day | Systemic chronic effects | |

PNEC

styrene

| Route of exposure | Value | Determining method |
|------------------------|------------|--------------------|
| Freshwater environment | 0.028 mg/l | |

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styrene

| Route of exposure | Value | Determining method |
|---|--|--------------------|
| Water (occasional leak) | 0.04 mg/l | |
| Seawater | 0.014 mg/l | |
| Microorganisms in wastewater treatment plants | 5 mg/l | |
| Freshwater sediment | 0.614 mg/kg of dry substance of sediment | |
| Sea sediments | 0.307 mg/kg of dry substance of sediment | |
| Sea sediments | 0.2 mg/kg of dry substance of soil | |

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Do not eat, drink and smoke during work. Remove contaminated clothes. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Use barrier creams for skin protection. Do not inhale gases and vapours. Do not inhale aerosols.

Eye/face protection

Tightly sealed goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Material of gloves: Nitrile rubber, NBR. Fluororubber. Not suitable are gloves made of the following materials: leather gloves, strong material gloves. Chloroprene rubber. Penetration time of glove material: ≤ 480 min. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Other protection: protective workwear. Contaminated skin should be washed thoroughly.

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. Filter A/P2.

Thermal hazard

Not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|------------------------------|
| Appearance | |
| Physical state | liquid at 20°C |
| color | grey |
| Odour | characteristic |
| Odour threshold | data not available |
| pH | data not available |
| Melting point/freezing point | data not available |
| Initial boiling point and boiling range | 145 °C |
| Flash point | 31 °C |
| Evaporation rate | data not available |
| Flammability (solid, gas) | Flammable liquid and vapour. |
| Upper/lower flammability or explosive limits | |
| flammability limits | data not available |
| explosive limits | |
| bottom | 1.2 % |
| upper | 8.9 % |
| Vapour pressure | 6 hPa at 20 °C |

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| | |
|--|--|
| Vapour density | data not available |
| Relative density | data not available |
| Solubility(ies) | |
| solubility in water | almost insoluble |
| 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 | viscous |
| Explosive properties | The product does not have explosive properties but can be explosive when blended with air. |
| Oxidising properties | data not available |

9.2. Other information

| | |
|-----------------------------------|---------------------------------|
| Density | 1.98 g/cm ³ at 20 °C |
| ignition temperature | 480 °C |
| content of organic solvents (VOC) | 86.8 % |
| solid content (dry matter) | 11.4 % volume |
| Product is not selfigniting. | |

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and no degradation occurs under normal use.

10.2. Chemical stability

not available

10.3. Possibility of hazardous reactions

Exothermic polymerization. Reacts with strong oxidizing agents. Reacts with acids. Reacts with alkalis. Reacts with peroxides and other radicals.

10.4. Conditions to avoid

not available

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. Phosphorus compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

styrene

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|----------|-----------------------|------------------|---------|-----|
| Oral | LD ₅₀ | | 5000 mg/kg | | Rat | |
| Dermal | LD ₅₀ | OECD 402 | >2000 mg/kg | | Rat | |
| Inhalation | LC ₅₀ | | 11.8 mg/l | 4 hour | Rat | |
| Inhalation | LC ₅₀ | | 9.5 mg/m ³ | 4 hour | Mouse | |

trizinc bis(orthophosphate)

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|--------|-------------|------------------|---------|-----|
| Oral | LD ₅₀ | | >5000 mg/kg | | Rat | |

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Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

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

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long lasting effects.

styrene

| Parameter | Method | Value | Time of exposure | Species | Environment | Source |
|------------------|------------------|-----------|------------------|---|-------------|-----------------|
| EC 10 | EPA OTS 797.1050 | 0.28 mg/l | | Algae (Pseudokirchneriella subcapitata) | | |
| EC 10 | EPA OTS 797.1050 | 72 mg/l | 16 hour | Microorganisms (Pseudomonas putida) | | |
| EC 20 | OECD 209 | 140 mg/l | 0,5 hour | BES | | |
| EC ₅₀ | | 500 mg/l | | BES | | ISO 8192-1986 E |
| EC ₅₀ | | 5.5 mg/l | | Bacteria (Salmonella typhimurium) | | |
| EC ₅₀ | | >72 mg/l | 16 hour | Bacteria (Pseudomonas putida) | | |
| EC ₅₀ | | 0.56 mg/l | 48 hour | Algae | | |
| EC ₅₀ | | 4.7 mg/l | 48 hour | Invertebrates (Daphnia magna) | | |

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| Parameter | Method | Value | Time of exposure | Species | Environment | Source |
|------------------|--------|------------------|------------------|---|-------------|--------|
| EC ₅₀ | | 0.46-4.3 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | | |
| EC ₅₀ | | >1-<10 mg/l | 72 hour | Algae | | |
| EC ₅₀ | | >200 mg/l | 8 day | Algae (Scenedesmus quadricauda) | | |
| EC ₅₀ | | 0.15-3.2 mg/l | 96 hour | Algae (Pseudokirchneriella subcapitata) | | |
| IC ₅₀ | | >200 mg/l | 8 day | Algae (Scenedesmus quadricauda) | | |
| IC ₅₀ | | 4.9 mg/l | 72 hour | Algae | | |
| IC ₅₀ | | 1.4 mg/l | 72 hour | Algae (Selenastrum capricornutum) | | |
| LC ₅₀ | | 4.9 mg/l | 72 hour | Algae | | |
| LC ₅₀ | | >1-<10 mg/l | 96 hour | Fishes | | |
| LC ₅₀ | | 25 mg/l | 96 hour | Lem | | |
| LC ₅₀ | | 32 mg/l | 96 hour | Fishes (Pimephales promelas) | | |
| LC ₅₀ | | 4.02 mg/l | 96 hour | Fishes (Pimephales promelas) | | |
| LC ₅₀ | | 58.75-95.32 mg/l | 96 hour | Fishes (Poecilia reticulata) | | |

trizinc bis(orthophosphate)

| Parameter | Method | Value | Time of exposure | Species | Environment | Source |
|-------------------|--------|-----------------|------------------|-----------------------------------|-------------|--------|
| EC ₅₀ | | 0.04-0.86 mg/l | 48 hour | Daphnia (Daphnia magna) | | |
| EC ₅₀ | | 0.136-0.15 mg/l | 72 hour | Algae (Selenastrum capricornutum) | | |
| ErC ₅₀ | | 11 mg/l | 72 hour | Algae (Desmodesmus subspicatus) | | |
| LC ₅₀ | | 0.14-2.6 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | | |

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

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

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12.6. Other adverse effects

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.

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

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling. Recommended cleansing agents: Alcohol.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

20 01 27 paint, inks, adhesives and resins containing dangerous substances *

Packaging waste type code

15 01 04 metallic packaging

15 01 10 packaging containing residues of or contaminated by dangerous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information**14.1. UN number**

UN 3269

14.2. UN proper shipping name

POLYESTER RESIN KIT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III - substances presenting low danger

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

Additional information

ADR: Without hardener component: no dangerous goods < 450 l. IMDG: Without hardener component: no dangerous goods < 30 l. IATA: Without hardener component: 3/III UN 1866 Resin Solution.

Hazard identification No.

UN number

Safety signs

 (Kemler Code)

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Road transport - ADR

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| Limited quantities | 5 L |
| Excepted quantities | E0 |
| Transport category | 3 |
| Tunnel restriction code | (E) |

Marine transport - IMDG

| | |
|----------------------|----------|
| EmS (emergency plan) | F-E, S-D |
| Marine Pollutant | No |

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.

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. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

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. |
| P103 | Read label before use. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe vapours. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P314 | Get medical advice/attention if you feel unwell. |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents/container to in accordance with national regulations. |

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.

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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 |
| Eye Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| Skin Irrit. | Skin irritation |

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| 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. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

2, 3, 8, 11, 12, 15, 16

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.