

METALLIC FILLER

Creation date 16. August 2018
Revision date Version 2.1

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

- 1.1. Product identifier** METALLIC FILLER
Substance / mixture mixture
Number 1 35071
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
mixture's intended use Polyester putty.
Disapproved uses of mixture For professional use only.
- 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 (ID) 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/eye 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	
Index: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 Registration number: 01-2119463881-32	zinc oxide	<1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	

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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**

Symptoms of poisoning may manifest after many hours, medical supervision is necessary for 48 hours after the accident. Remove contaminated clothes immediately. Terminate the exposure immediately; move the affected person to fresh air. In case of unconsciousness place patient stably in side position for transportation.

Inhalation

Transfer the affected person to the fresh air and ensure calm environment for body and mind. If required, provide artificial respiration. In the event of issues, find medical advice. In case of unconsciousness place patient stably in side position for transportation.

Skin contact

Immediately wash with water and soap and rinse thoroughly. 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. In the event of issues, find medical advice.

Ingestion

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment.

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

not available

Skin contact

not available

Eye contact

not available

Ingestion

not available

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

If ingested, irrigate the stomach using activated charcoal in addition.

More information

Cough, headache. Nausea. Perspiration. Dizziness.

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

Carbon dioxide, powder, water spray jet. Fight larger fires with water spray or alcohol resistant foam.

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

Use a self-contained breathing apparatus and full-body protective clothing. Do not inhale gases and vapours. 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. Keep unprotected persons away.

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- 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**
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. Provide sufficient ventilation.
- 6.4. Reference to other sections**
See the Section 7, 8 and 13.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace. Store in tightly closed containers in a cool, dry place intended for this purpose. Keep away from sources of heating, ignition and direct sunlight. Prevent formation of aerosols. Use only outdoors or in a well-ventilated area. 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 cool. Keep only in original container. Do not allow to penetrate the ground/soil. Protect against strong acids, bases and oxidizing agents. Do not store together with food, drink and animal feed.
Storage class 3A - Flammable liquids (flash point below 55 °C)
The specific requirements or rules relating to the substance/mixture
Keep away from sources of heating, ignition and direct sunlight. Store in tightly closed containers in a cool, dry place intended for this purpose. Store in a well-ventilated place.
- 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		
zinc oxide (CAS: 1314-13-2)	WEL	8 hours	5 mg/m ³	Respirable dust, Fume	Gestis
	WEL	Short-term	10 mg/m ³	Respirable dust, Fume	

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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	

trizinc bis(orthophosphate)

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	5 mg/m ³	Systemic chronic effects	
Workers	Dermal	83 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	2.5 mg/m ³	Systemic chronic effects	
Consumers	Dermal	83 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	0.83 mg/kg bw/day	Systemic chronic effects	

zinc oxide

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	5 mg/m ³	Systemic chronic effects	
Workers	Inhalation	0.5 mg/m ³	Local chronic effects	
Workers	Dermal	83 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	2.5 mg/m ³	Systemic chronic effects	
Consumers	Dermal	83 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	0.83 mg/kg bw/day	Systemic chronic effects	

PNEC

styrene

Route of exposure	Value	Determining method
Freshwater environment	0.028 mg/l	
Water (occasional leak)	0.04 mg/l	
Seawater	0.014 mg/l	
Microorganisms in wastewater treatment plants	5 mg/l	

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styrene

Route of exposure	Value	Determining method
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	

trizinc bis(orthophosphate)

Route of exposure	Value	Determining method
Freshwater environment	20.6 µg/l	
Seawater	6.1 µg/l	
Microorganisms in wastewater treatment plants	100 µg/l	
Freshwater sediment	117.8 mg/kg of dry substance of sediment	
Sea sediments	56.5 mg/kg of dry substance of sediment	
Soil (agricultural)	35.6 mg/kg of dry substance of soil	

zinc oxide

Route of exposure	Value	Determining method
Freshwater environment	20.6 µg/l	
Seawater	6.1 µg/l	
Microorganisms in wastewater treatment plants	100 µg/l	
Freshwater sediment	117.8 mg/kg of dry substance of sediment	
Sea sediments	56.5 mg/kg of dry substance of sediment	
Soil (agricultural)	35.6 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. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/aerosols. Avoid contact with the eyes and skin. When using do not eat, drink, smoke, sniff. Use barrier creams for skin protection.

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. Material of gloves: Fluororubber. Penetration time of glove material: ≥480 min. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. For prolonged contact: Fluororubber. Vitoject. Protection against splashes: Fluororubber. Butyl rubber. Vitoject. Butoject. Observe other recommendations of the manufacturer. Not suitable are gloves made of the following materials: Nitrilrubber. Latex. Neoprene. Chloroprene rubber. Leather gloves, strong material gloves. Contaminated skin should be washed thoroughly. Use barrier creams for skin protection.

Other protection: protective workwear.

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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	paste
Physical state	no data available at 20°C
color	silver - 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	32 °C
Evaporation rate	non-applicable
Flammability (solid, gas)	data not available
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
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	almost insoluble
solubility in fats	data not available
solubility in organic solvents	soluble
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	The product does not have explosive properties but can be explosive when blended with air.
Oxidising properties	data not available
data not available	

9.2. Other information

Density	2.01 g/cm ³ at 20 °C
ignition temperature	480 °C
content of organic solvents (VOC)	11.8 %
Product is not selfigniting.	

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

not available

10.2. Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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10.3. Possibility of hazardous reactions

Exothermic polymerization. Reacts with peroxides and other radical forming substances. Reacts with strong alkalis, strong acids.

10.4. Conditions to avoid

not available

10.5. Incompatible materials

not available

10.6. Hazardous decomposition products

Unknown.

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	

zinc oxide

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀		7950 mg/kg		Mouse	
Oral	LD ₅₀		>6000 mg/kg		Rat	

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.

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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)		
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		

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Parameter	Method	Value	Time of exposure	Species	Environment	Source
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	Invertebrates (Daphnia magna)		
EC ₅₀		28.2 mg/l	48 hour	Invertebrates (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	72 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.

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. Perfectly cleaned containers can be submitted for recycling. Recommended cleaning agent: alcohol.

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Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) 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

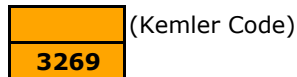
not available

Additional information

Hazard identification No.

UN number

Safety signs



3

**Road transport ADR**

Limited amount

5 L

Extracted amounts

E1

Transport category

3

Tunnel restriction code

(E)

Marine transport - IMDG

EmS (emergency plan)

F-E, S-D

Marine pollution

No

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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). 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.
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/eye 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.

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

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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 Kow	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
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

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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. 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.