

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product name**

ZP-4AM

**Synonyms**

Zeolit / Zeolite / Zeolith 4AM

<https://my.chemius.net/p/3JrWZD/en/pd/en>

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

**Relevant identified uses**

Industrial use.

**Uses advised against**

Not known.

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

**Supplier**

SILKEM, d. o. o.  
Tovarniška cesta 10  
2325 Kidričevo, Slovenia  
+386 2 7991 200  
info@silkem.si

**Manufacturer**

SILKEM, d.o.o.  
Tovarniška cesta 10  
2325 Kidričevo, Slovenia  
+386 2 7991 200  
info@silkem.si

### 1.4 Emergency Telephone Number

**Emergency**

112

**Supplier**

+386 2 7991 208 (7h - 15h)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

According to the regulation, the chemical is not classified as hazardous.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP]****Hazard statements:**

Not applicable.

**Supplemental hazard information (EU):**

Not applicable.

**Precautionary statements:**

Not applicable.

**2.3 Other hazards****PBT/vPvB**

No information.

**Endocrine disrupting properties**

No information.

**Additional information**

The substances in the mixture are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

For mixtures see 3.2.

**3.2 Mixtures**

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Notes for substances
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	1318-02-1 930-915-9 - 01-2119429034-49-0017	93 - 99	/	/	/
sodium sulphate	7757-82-6 231-820-9 - 01-2119519226-43-0000	1.5 - 2.5	/	/	/

**Product description**

EINECS: 215-283-8 and CAS: 1318-02-1 are merely used for information as related numbers and as a pre-registration identifier. EINECS numbers mentioned here have been designated by ECHA after registration.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****General notes**

When in doubt or if feeling unwell seek medical assistance.

**Following inhalation**

Remove patient to fresh air - move out of dangerous area. Ventilate the premises. Inhale fresh air. If symptoms develop and persist, seek medical attention.

**Following skin contact**

Product is not irritating to the skin. Areas of the body that have come into contact with the product must be rinsed with water.

**Following eye contact**

If substance has got into eyes, immediately wash out with plenty of water. If irritation persists, seek professional medical attention.

**Following ingestion**

In case of doubt or if feeling unwell seek medical help.

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

**Following inhalation**

No information.

**Following skin contact**

No information.

**Following eye contact**

No information.

**Following ingestion**

No information.

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

No information.

## SECTION 5: FIREFIGHTING MEASURES

## 5.1 Extinguishing media

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

**Unsuitable extinguishing media**

Full water jet.

## 5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products**

No information.

## 5.3 Advice for firefighters

**Protective actions**

In case of fire or heating do not breathe fumes/vapours.

**Special protective equipment for fire-fighters**

In case of fire: Wear suitable respiratory equipment - self-contained breathing apparatus and full protective equipment.

**Additional information**

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel****Protective equipment**

Use personal protective equipment (Section 8). Thoroughly clean hands after use or contact.

**Precautionary measures**

Avoid dust generation.

**Emergency procedures**

No information.

**For emergency responders**

Wear appropriate personal protective equipment!

**6.2 Environmental precautions**

If accidental large entry into water or ground occurs, inform responsible authorities.

**6.3 Methods and material for containment and cleaning up****For containment**

No information.

**For cleaning up**

Pick up mechanically and remove it in accordance with regulation.

**OTHER INFORMATION**

No information.

**6.4 Reference to other sections**

See also sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling****Protective measures****Measures to prevent fire**

Take precautionary measures against static discharges.

**Measures to prevent aerosol and dust generation**

Prevent dusting. Ensure good ventilation and extraction.

**Measures to protect the environment**

Avoid release to the environment.

**Other measures**

No information.

**Advice on general occupational hygiene**

Avoid contact with skin and eyes. Use personal protective equipment. Do not eat or drink while working.

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

Keep in well closed containers. Keep in a dry place. Keep container in a well ventilated place. Keep away from food, drink and animal feeding stuffs. This product is hygroscopic.

**Packaging materials**

No information.

**Requirements for storage rooms and vessels**

No information.

**Storage class**

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**Further information on storage conditions**

No information.

## 7.3 Specific end use(s)

**Recommendations**

No information.

**Industrial sector specific solutions**

No information.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1 Control parameters

**Occupational Exposure limit values**

Name	mg/m <sup>3</sup>	ml/m <sup>3</sup>	Short-term value mg/m <sup>3</sup>	Short-term value ml/m <sup>3</sup>	Remark	Biological Tolerance Values
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	10	/	/	/	WEL long-term, inhalable	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	4	/	/	/	WEL long-term, respirable	/

**Information on monitoring procedures**

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

**DNEL/DMEL values****For product**

No information.

**For components**

Name	Type	Exposure route	exp. frequency	Remark	value
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	Worker	inhalation	long term	/	3 mg/m <sup>3</sup>
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	Worker	dermal	long term	/	2.5 mg/kg bw/day
sodium sulphate	Worker	inhalation	long term systemic effects	/	20 mg/m <sup>3</sup>
sodium sulphate	Worker	inhalation	long term local effects	/	20 mg/m <sup>3</sup>
sodium sulphate	Consumer	inhalation	long term systemic effects	/	12 mg/m <sup>3</sup>
sodium sulphate	Consumer	inhalation	long term local effects	/	12 mg/m <sup>3</sup>

**PNEC values****For product**

No information.

**For components**

Name	Exposure route	Remark	value
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	fresh water	/	3.2 mg/L
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	marine water	/	0.32 mg/L
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	soil	/	600 mg/kg dw
sodium sulphate	fresh water	/	11.09 mg/L
sodium sulphate	marine water	/	1.109 mg/L
sodium sulphate	water treatment plant	/	800 mg/L
sodium sulphate	fresh water sediment	/	40.2 mg/kg
sodium sulphate	marine water sediment	/	4.02 mg/kg
sodium sulphate	soil	/	1.54 mg/kg
sodium sulphate	water, intermittent release	/	17.66 mg/L

**8.2 Exposure controls****Appropriate engineering control****Substance/mixture related measures to prevent exposure during identified uses**

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice.

**Structural measures to prevent exposure**

No information.

**Organisational measures to prevent exposure**

Keep eyewash bottles or personal eyewash units available.

**Technical measures to prevent exposure**

Provide good ventilation and local exhaust in areas with increased concentration.

**Personal protective equipment****Eye and face protection**

Safety glasses with side protection (EN 166).

**Hand protection**

Protective gloves (EN 374).

**Appropriate materials**

No information

**Skin protection**

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

**Respiratory protection**

Not needed under normal use and adequate ventilation. Mask with dust filter (P2) or FFP2 (EN 149).

**Thermal hazards**

No information.

**Environmental exposure controls**

**Substance/mixture related measures to prevent exposure**

No information.

**Instruction measures to prevent exposure**

No information.

**Organisational measures to prevent exposure**

No information.

**Technical measures to prevent exposure**

No information.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

**Physical state**

solid - granules

**Colour**

white

**Odour**

odourless

**Important health, safety and environmental information**

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	10 – 12
Viscosity	No information.
Solubility	No information.
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	Relative density: 470 – 570 kg/m <sup>3</sup>
Relative vapour density	No information.
Particle characteristics	No information.

9.2 OTHER INFORMATION

Explosive properties

No information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Product is stable under normal conditions.

### 10.3 Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

### 10.4 Conditions to avoid

No special precautions required. Consider the directions for use and storage. Protect from moisture and water - keep in dry place.

### 10.5 Incompatible materials

Not known.

### 10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### (a) Acute toxicity

##### For product

Exposure route	Type	Species	Time	value	Method	Remark
inhalation	LC <sub>50</sub>	rat	4 h	18.3 mg/l	/	dust/aerosol
dermal	LD <sub>50</sub>	rabbit	/	2000 mg/kg	/	/
oral	LD <sub>50</sub>	rat	/	10000 mg/kg	/	/

##### For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	oral	LD <sub>50</sub>	Dog	/	1000 - 31600 mg/kg	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	oral	LD <sub>50</sub>	rat	/	5000 - 31600 mg/kg	/	/

Name	Exposure route	Type	Species	Time	value	Method	Remark
sodium sulphate	oral	LD <sub>50</sub>	rat	/	2001 mg/kg	OECD 401	/
sodium sulphate	inhalation	LC <sub>50</sub>	rat	4 h	5.01 mg/l	OECD 436	/
sodium sulphate	oral	ATE	/	/	2001 mg/kg bw	/	/
sodium sulphate	inhalation	ATE	/	4 h	5.01 mg/l	/	/

**(b) Skin corrosion/irritation****For components**

Name	Species	Time	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	/	/	Non-irritant.	/	/
sodium sulphate	/	/	Non-irritant.	/	/

**(c) Serious eye damage/irritation****For components**

Name	Exposure route	Species	Time	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	/	/	/	It may cause a slight and transient irritation to the eyes.	/	Apart from mild congestion after 2 hours after application of the preparation, which has disappeared within 24 hours, no inflammation changes of conjunctiva mucosa have been observed there.
sodium sulphate	/	/	/	Irritating.	/	/

**(d) Respiratory or skin sensitisation****For components**

Name	Exposure route	Species	Time	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	-	/	/	Non sensitising.	/	/
sodium sulphate	dermal	guinea pig	/	Negative.	/	/

**(e) (Germ cell) mutagenicity**

**For components**

Name	Type	Species	Time	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	/	/	/	Negative.	/	/

**(f) Carcinogenicity****For components**

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	/	/	/	/	/	negative	/	/

**(g) Reproductive toxicity****For components**

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	-	-	/	/	/	Negative.	/	/
sodium sulphate	Teratogenicity	NOAEL	rat (male/female)	/	160 mg/kg bw	not teratogenic	OECD 414	/
sodium sulphate	Maternal toxicity	NOAEL	rat (male/female)	/	160 mg/kg bw	Not toxic for reproduction.	OECD 414	/

**Summary of evaluation of the CMR properties**

No information.

**(h) STOT-single exposure**

No information.

**(i) STOT-repeated exposure**

No information.

**(j) Aspiration hazard**

No information.

**Symptoms related to the physical, chemical and toxicological characteristics**

No information.

**Interactive effects**

No information.

**11.2 Information on other hazards****Endocrine disrupting properties**

No information.

**Other information**

No information.

**SECTION 12: ECOLOGICAL INFORMATION**

## 12.1 Toxicity

**Acute (short-term) toxicity****For product**

Type	Exposure time	Species	organism	Method	Remark	value
EC <sub>50</sub>	72 h	algae	/	/	/	560 - 1000 mg/L
LC <sub>50</sub>	96 h	fish	/	/	/	1800 - 3200 mg/L

**For components**

Name	Type	value	Exposure time	Species	organism	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	EC <sub>50</sub>	> 100 mg/L	48 h	daphnia	/	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	LC <sub>50</sub>	> 680 mg/L	96 h	fish	/	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	EC <sub>50</sub>	> 300 mg/L	96 h	algae	/	/	/
sodium sulphate	LC <sub>50</sub>	7960 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
sodium sulphate	EC <sub>50</sub>	1766 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
sodium sulphate	EC <sub>50</sub>	1900 mg/L	72 h	algae	<i>Nitzschia linearis</i>	/	/

**Chronic (long-term) toxicity****For components**

Name	Type	value	Exposure time	Species	organism	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	NOEC	> 86.7 mg/l	/	fish	/	/	/

Name	Type	value	Exposure time	Species	organism	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	NOEC	32 mg/l	/	aquatic invertebrate	/	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	NOEC	> 200 mg/l	/	sediment organisms	/	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	LC <sub>50</sub>	9000 mg/kg soil dw	23 days	Terrestrial plants	/	OECD 208	seedling emergence
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	EC50	9000 mg/kg soil dw	/	Terrestrial plants	/	OECD 208	seedling growth
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	NOEC	5000 mg/kg soil dw	/	Terrestrial plants	/	OECD 208	/
sodium sulphate	NOEC	8000 mg/l	/	crustacea	/	/	/

## 12.2 Persistence and degradability

### Abiotic degradation, physical- and photo-chemical elimination

#### For components

Name	Environment	Type / Method	Half Time	Evaluation	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	water	hydrolysis	/	The hydrolysis rate is accelerated at high and low pH and is retarded by high concentrations of hydrolysis products	/	/
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	water	hydrolysis	/	The hydrolytic reaction results in the formation of natural aluminosilicates such that natural constituents of soil, sediment and water are formed	/	/

#### Biodegradation

No information.

### 12.3 Bioaccumulative potential

#### Partition coefficient

##### For components

Name	Media	value	Temperature °C	pH	Concentration	Method
sodium sulphate	Octanol-water (log Pow)	-4.38	/	/	/	/

#### Bioconcentration factor (BCF)

##### For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	-	/	/	/	Does not bioaccumulate.	/	/
sodium sulphate	BCF	/	0.5	/	/	/	/

### 12.4 Mobility in soil

#### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

No information.

#### Adsorption/Desorption

##### For components

Name	Type	Criterion	value	Evaluation	Method	Remark
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	Soil	/	/	Not amenable to biodegradation. In practice zeolite improve nutrient balance in soil.	/	/

### 12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 12.6 Endocrine disrupting properties

No information.

### 12.7 Other adverse effects

No information.

### 12.8 Additional information

#### For product

Avoid release to the environment.



## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product / Packaging disposal

##### Waste chemical

Waste should be handled in accordance with local or national regulations

##### Waste codes / waste designations according to LoW

No information.

##### Packaging

Deliver completely emptied containers to approved waste disposal authorities.

##### Waste codes / waste designations according to LoW

No information.

##### Waste treatment-relevant information

Disposal in accordance with the Rules on the management of waste.

##### Sewage disposal-relevant information

No information.

##### Other disposal recommendations

No information.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number or ID number

ADR/RID	IMDG	IATA	ADN
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.

### 14.2 UN proper shipping name

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

### 14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

### 14.4 Packing group

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

### 14.5 Environmental hazards

ADR/RID	IMDG	IATA	ADN
NO	NO	NO	NO

## 14.6 Special precautions for user

ADR/RID	IMDG	IATA	ADN
Limited quantities: <b>Not given/not applicable</b>	Limited quantities: <b>Not given/not applicable</b>		Limited quantities: <b>Not given/not applicable</b>

## 14.7 Maritime transport in bulk according to IMO instruments

ADR/RID	IMDG	IATA	ADN
	Not given/not applicable		

## SECTION 15: REGULATORY INFORMATION

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

**Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)**

not applicable

**Regulation EC 648/2004 on detergents**

No information.

**Special instructions**

No information.

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: OTHER INFORMATION

**Indication of changes**

2.3 Other hazards 4.1 Description of first aid measures 9.1 Information on basic physical and chemical properties 9.2 OTHER INFORMATION 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 12.6 Endocrine disrupting properties 12.7 Other adverse effects 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Key literature references and sources for data**

ZP - 4AM, Silkem, d. o. o., version 2

**Abbreviations and acronyms**

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

**List of relevant H phrases**



No information.