

# SAFETY DATA SHEET according to regulation 1907/2006

**Product name: SpaBalancer Clean & Refresh New**

**Creation date: 11.10.2019, Revision: 25.06.2022, version: 1.4**

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

### 1.1 Product identifier

**Product name**

SpaBalancer Clean & Refresh New

**UFI:**

1TS2-V0KQ-100V-K9F3



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

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

**Relevant identified uses**

Cleaning agent.

**Uses advised against**

No information.

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

**Supplier**

SpaBalancer GmbH  
Verbindungsweg 42  
D-25469 Halstenbek, Germany  
+49(0)4101 - 37 444 80  
info@spabalancer.com

### 1.4 Emergency Telephone Number

**Emergency**

112

**Supplier**

+49(0)4101 - 37 444 80

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

### 2.2 Label elements

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



**Signal word: Warning**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

P102 Keep out of reach of children.

P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local/national regulation.

**2.3 Other hazards**

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
sodium carbonate	497-19-8 207-838-8 011-005-00-2 01-2119485498-19	0,1-<1	Eye Irrit. 2; H319	/	/
sodium hydroxide	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	0,1-<1	Met. Corr. 1; H290 Skin Corr. 1A; H314.1A Eye Dam. 1; H318	Skin Corr. 1A; H314.1A; C ≥ 5% Skin Corr. 1B; H314.1B; 2% ≤ C < 5% Skin Irrit. 2; H315; 0.5% ≤ C < 2% Eye Irrit. 2; H319; 0.5% ≤ C < 2%	/
sodium percarbonate	15630-89-4 239-707-6 - 01-2119457268-30	0,1-<1	Ox. Sol. 2; H272.S2 Acute Tox. 4; H302 Eye Dam. 1; H318	/	/
citric acid, monohydrate	5949-29-1 201-069-1 - 01-2119457026-42	0,1-<1	Eye Irrit. 2; H319	/	/
alcohols, C16-18, ethoxylated	68439-49-6 500-212-8 -	<0,5	Eye Irrit. 2; H319	/	/

**Product description**

SVHC: Contains zero or less than 0.1% of SVHC substance.

**SECTION 4: FIRST AID MEASURES****4.1 First aid measures****General notes**

When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

**Following inhalation**

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

**Following skin contact**

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention. Wash contaminated clothes and shoes before reuse.

**Following eye contact**

Immediately flush eyes with running water, keeping eyelids apart. After initial flushing, remove any contact lenses and continue flushing. If irritation persists, seek professional medical attention.

**Following ingestion**

Rinse mouth and drink plenty of water (only if the person is conscious). Do not induce vomiting! Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed****Following inhalation**

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

**Following skin contact**

Itching, redness, pain.

**Following eye contact**

Redness, tearing, pain.

**Following ingestion**

May cause nausea/vomiting and diarrhea.

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

Treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

The preparation does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

Full water jet.

**5.2 Special hazards arising from the substance or mixture****Hazardous combustion products**

In case of heating harmful vapours/gases can be generated.

**5.3 Advice for firefighters****Protective actions**

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

**Special protective equipment for fire-fighters**

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

**Additional information**

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

#### Protective equipment

Use personal protective equipment (Section 8).

#### Precautionary measures

Ensure adequate ventilation.

#### Emergency procedures

Avoid contact with skin, eyes and clothing. Do not breathe vapour or mist. Prevent access to unprotected personnel.

### For emergency responders

Use personal protective equipment.

## 6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

## 6.3 Methods and material for containment and cleaning up

### For containment

Stem the spill if this does not pose risks.

### For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Dispose in accordance with applicable regulations (see Section 13).

#### OTHER INFORMATION

See Section 7: safe handling.

## 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

Ensure adequate ventilation.

##### Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

##### Measures to protect the environment

No information.

##### Other measures

No information.

#### Advice on general occupational hygiene

Observe the usual precautionary measures when handling chemicals. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Protect skin with protective cream before use. Do not breathe vapours/mist. Wear suitable protective equipment; see Section 8. Remove contaminated clothes and wash them before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep in tightly closed container. Keep in a cool, dry and well ventilated place. Protect from cold (prevent freezing). Storage temperature: +5 - 25 ° C. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

**Packaging materials**

Store only in original container.

**Requirements for storage rooms and vessels**

Close opened containers after use. Put the containers upright to prevent from leaking.

**Storage class**

No information.

**Further information on storage conditions**

No information.

**7.3 Specific end use(s)****Recommendations**

See identified uses in Section 1.2.

**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
sodium carbonate	10	0.1	/	/	/	/
Sodium hydroxide (1310-73-2)	/	/	2	/	/	/

**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
sodium carbonate	Worker	dermal	long term local effects	/	10 mg/cm <sup>2</sup>
sodium hydroxide	Worker	inhalation	short term local effects	/	1 mg/m <sup>3</sup>
sodium hydroxide	Consumer	inhalation	long term local effects	/	1 mg/m <sup>3</sup>
sodium percarbonate	Worker	inhalation	long term local effects	/	5 mg/m <sup>3</sup>
sodium percarbonate	Worker	dermal	long term local effects	/	12.8 mg/cm <sup>2</sup>
sodium percarbonate	Worker	dermal	short term local effects	/	12.8 mg/cm <sup>2</sup>
sodium percarbonate	Consumer	dermal	long term local effects	/	6.4 mg/cm <sup>2</sup>
sodium percarbonate	Consumer	dermal	short term local effects	/	6.4 mg/cm <sup>2</sup>

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

No information.

**For components**

Name	Exposure route	Remark	value
sodium carbonate	water treatment plant	/	16.24 mg/L
sodium hydroxide	fresh water	/	0.21 ppb
sodium hydroxide	marine water	/	0.042 ppb
sodium percarbonate	fresh water	/	0.035 mg/L

sodium percarbonate	marine water	/	0.035 mg/L
sodium percarbonate	water, intermittent release	fresh water	0.035 mg/L
sodium percarbonate	water treatment plant	/	16.24 mg/L
citric acid, monohydrate	fresh water	/	0.44 mg/L
citric acid, monohydrate	marine water	/	0.044 mg/L
citric acid, monohydrate	fresh water sediment	dry weight	34.6 mg/kg
citric acid, monohydrate	marine water sediment	dry weight	3.46 mg/kg
citric acid, monohydrate	soil	dry weight	33.1 mg/kg
citric acid, monohydrate	water treatment plant	/	1000 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. Do not eat, drink or smoke while working. Avoid contact with eyes. Do not breathe vapours/aerosols.

#### Structural measures to prevent exposure

No information.

#### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

#### Technical measures to prevent exposure

Keep away from food, drink and animal feeding stuffs. Provide good ventilation and local exhaust in areas with increased concentration.

### Personal protective equipment

#### Eye and face protection

No requirements under normal use conditions. If there is a risk of eye contact use safety glasses. Safety goggles (EN 166).

#### Hand protection

No requirements under normal use conditions. In case of prolonged exposure, wear protective gloves (EN 374).

### Appropriate materials

Material	Thickness	Penetration Time	Remark
Butyl rubber	≥ 0.4 mm	> 480 min	/
natural latex	≥ 0.5 mm	> 480 min	/
Viton (fluorinated rubber)	≥ 0.4 mm	> 480 min	/

### Skin protection

No requirements under normal use conditions. With excessive exposure wear protective working clothing (overalls and boots). Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

### Respiratory protection

Not needed under normal use and adequate ventilation. At elevated concentrations of vapours/aerosols in the air wear a mask (EN 140) with filter A2-P2 (EN 14387). 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded.

### Thermal hazards

None under normal use conditions.

### 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

Observe local regulations regarding the protection of the environment. Do not allow product to reach drains, sewage systems or ground water.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Physical state

liquid

#### Colour

according to specification

#### Odour

mild

#### Important health, safety and environmental information

Odour threshold	No information.
pH	No information.
Melting point/Freezing point	No information.
Initial boiling point/boiling range	No information.
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Explosion limits (vol%)	No information.
Vapour pressure	No information.
Vapour density	No information.
Density / weight	Density: ca. 1 g/cm <sup>3</sup> at 20 °C
Solubility	Water: Completely soluble
Partition coefficient	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	No information.
Explosive properties	No information.
Oxidising properties	No information.

### 9.2 OTHER INFORMATION

No information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under recommended transport or storage conditions.

### 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3 Possibility of hazardous reactions

Reacts with strong oxidising agents.

### 10.4 Conditions to avoid

No special precautions required. Consider the directions for use and storage.

**10.5 Incompatible materials**

Strong oxidising agents.  
Acids. Reducing agents.

**10.6 Hazardous decomposition products**

Under normal use conditions no hazardous decomposition products are expected.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****(a) Acute toxicity**

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
sodium carbonate	dermal	LD <sub>50</sub>	rabbit	/	2000 mg/kg	/	/
sodium carbonate	oral	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/
sodium carbonate	inhalation	LC <sub>50</sub>	rat	4 h	2.3 mg/l	/	/
sodium hydroxide	oral	LDLo	rat	/	500 mg/kg bw	/	/
sodium percarbonate	dermal	LD <sub>50</sub>	rabbit	/	> 2000 mg/kg	OECD 402	/
sodium percarbonate	oral	LD <sub>50</sub>	rat	/	1034 mg/kg	/	/
citric acid, monohydrate	dermal	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/
citric acid, monohydrate	oral	LD <sub>50</sub>	mouse	/	5400 mg/kg	OECD 401 OECD 401	/
citric acid, monohydrate	oral	LD <sub>50</sub>	rat	/	11700 mg/kg	OECD 401	/
alcohols, C16-18, ethoxylated	oral	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/

**Additional information**

The product is not classified for acute toxicity.

**(b) Skin corrosion/irritation**

No information.

**Additional information**

Causes skin irritation.

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

No information.

**Additional information**

Causes serious eye irritation.

**(d) Respiratory or skin sensitisation**

No information.

**Additional information**

The product is not classified as sensitising.

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

No information.

**(f) Carcinogenicity**

No information.

**(g) Reproductive toxicity**

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

No information.

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Acute (short-term) toxicity

##### For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
sodium carbonate	LC <sub>50</sub>	740 mg/L	96 h	/	Gambusia affinus	/	/
sodium carbonate	LC <sub>50</sub>	300 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
sodium carbonate	EC <sub>50</sub>	200 - 227 mg/L	48 h	crustacea	<i>Ceriodaphnia dubia</i>	/	/
sodium hydroxide	LC <sub>50</sub>	35 mg/L	96 h	fish	/	/	/
sodium hydroxide	EC <sub>50</sub>	40.4 mg/L	48 h	crustacea	/	/	/
sodium percarbonate	LC <sub>50</sub>	70.7 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
sodium percarbonate	EC <sub>50</sub>	4.9 mg/L	48 h	/	<i>Daphnia pulex</i>	/	/
sodium percarbonate	NOEC	2 mg/L	48 h	crustacea	<i>Daphnia pulex</i>	/	/
citric acid, monohydrate	Toxicity limit	425 mg/L	168 h	algae	<i>Scenedesmus quadricauda</i>	/	/
citric acid, monohydrate	LC <sub>50</sub>	1535 mg/L	24 h	/	<i>Daphnia magna</i>	/	/
citric acid, monohydrate	LC <sub>50</sub>	400 mg/L	48 h	fish	<i>Leuciscus idus</i>	/	/
alcohols, C16-18, ethoxylated	LC <sub>50</sub>	3.5 mg/L	96 h	fish	<i>Danio rerio</i>	/	/
alcohols, C16-18, ethoxylated	EC <sub>50</sub>	> 1000 mg/L	72 h	algae	<i>Pseudokirchneriella</i>	/	/

#### Chronic (long-term) toxicity

No information.

### 12.2 Persistence and degradability

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

No information.

#### Biodegradation

No information.

#### Additional information

Methods for determining biodegradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

#### Partition coefficient

No information.

#### Bioconcentration factor (BCF)

No information.

### 12.4 Mobility in soil

#### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

No information.

#### Adsorption/Desorption

No information.

### 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 Other adverse effects

No information.

### 12.7 Additional information

#### For product

Product is not classified as dangerous for environment. Contained surfactants are biodegradable in accordance with the Regulation (EC) 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product / Packaging disposal

##### Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Do not allow product to reach drains/sewage systems. Dispose the product to an authorised collector/remover of waste/company performing waste recovery.

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

20 01 29\* - detergents containing dangerous substances

##### Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities. Cleaned uncontaminated packaging may be taken for recycling.

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

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

##### Waste treatment-relevant information

No information.

##### Sewage disposal-relevant information

No information.

##### Other disposal recommendations

No information.

**SECTION 14: TRANSPORT INFORMATION**

ADR/RID	IMDG	IATA	ADN
<b>14.1 UN number</b>			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
<b>14.2 UN proper shipping name</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.3 Transport hazard class(es)</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.4 Packing group</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.5 Environmental hazards</b>			
NO	NO	NO	NO
<b>14.6 Special precautions for user</b>			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	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) 2015/830)

- 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

< 5%: oxygen-based bleaching agents, non-ionic surfactants

Special instructions

No information.

**15.2 Chemical Safety Assessment**

A chemical safety assessment was carried out for the following substances:

CAS 1310-73-2

CAS 15630-89-4

CAS 5949-29-1

CAS 497-19-8

CAS 10543-57-4

**SECTION 16: OTHER INFORMATION****Indication of changes**

8.1 Control parameters 9.1 Information on basic physical and chemical properties 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Key literature references and sources for data**

No information.

**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**

H272 May intensify fire; oxidiser.  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.