

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## TM PERACID 15

Version number: GHS 7.0  
Replaces version of: 2017-11-11 (GHS 6)

Revision: 2018-04-09

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

#### 1.1 Product identifier

Trade name **TM PERACID 15**  
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses biocidal product  
cleaning agent  
professional use (SU22)  
industrial use (SU3)

Product category PC35 washing and cleaning products (including solvent based products)  
PC8 biocidal products (e.g. disinfectants, pest control)

Uses advised against do not use for squirting or spraying  
do not use for products which come into direct contact with the skin

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

Thonhauser GmbH  
Perlhofgasse 2/1  
2372 Giesshübl/Wien  
Austria

Telephone: +43 (0)2236 320 272  
Telefax: +43 (0)2236 320 273  
e-mail: QA@thonhauser.net  
Website: www.thonhauser.net

e-mail (competent person) QA@thonhauser.net (Herr Dr. Daniel Herzog)

#### 1.4 Emergency telephone number

Manufacturer **+43 699 141 80 200**  
Mon - Thu 07:00 - 15:00, Fri 07:00 - 13:00

Poison centre & Emergency information service

United Kingdom	CHEMTREC UK 24/7 CCN 819393	+44 870 8200418
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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.15	Organic peroxide	F	Org. Perox. F	H242
2.16	Substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.2	Skin corrosion/irritation	1A	Skin Corr. 1A	H314
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.8R	Specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
4.1C	Hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

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For full text of H-phrases: see SECTION 16.

## The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.

## 2.2 Label elements

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

- Signal word **danger**

- Pictograms

GHS02, GHS05,  
GHS07, GHS09



- Hazard statements

H242 Heating may cause a fire.  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P234 Keep only in original packaging.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

- Hazardous ingredients for labelling **acetic acid, Peracetic acid, hydrogen peroxide**

## 2.3 Other hazards

This material is combustible, but will not ignite readily. Heating may cause a fire.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.


## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture



Name of substance	Identifier	Conc.	Classification acc. to GHS	Pictograms
Acetic acid	CAS No 64-19-7  EC No 200-580-7	10 – < 25 wt%	Flam. Liq. 3 / H226 Skin Corr. 1A / H314 Eye Dam. 1 / H318	

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Name of substance	Identifier	Conc.	Classification acc. to GHS	Pictograms
Hydrogen peroxide	CAS No 7722-84-1  EC No 231-765-0	10 – < 25 wt%	Ox. Liq. 1 / H271 Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Corr. 1A / H314 Eye Dam. 1 / H318 STOT SE 3 / H335	
Peracetic acid	CAS No 79-21-0  EC No 201-186-8	10 – < 25 wt%	Flam. Liq. 3 / H226 Org. Perox. D / H242 Met. Corr. 1 / H290 Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Corr. 1A / H314 STOT SE 3 / H335 Aquatic Acute 1 / H400	

## Regulation 648/2004/EC on detergents

Labelling of contents	
Constituents	Weight % content (or range)
Oxygen-based bleaching agents	30 % and more

For full text of abbreviations: see SECTION 16.

## Regulation 528/2012/EU concerning the making available on the market and use of biocidal products

Biocidal active substances			
Name of substance	Wt%	w/w	unit
Peracetic acid	14.9 %	149	g/kg

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

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### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

water spray, alcohol resistant foam, BC-powder

#### Unsuitable extinguishing media

water jet, none organic substances

### 5.2 Special hazards arising from the substance or mixture

Oxidising property. Substance or mixture corrosive to metals.

#### Hazardous combustion products

nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

### 6.3 Methods and material for containment and cleaning up

#### Advices on how to contain a spill

covering of drains

#### Advices on how to clean up a spill

Collect spillage: sawdust, kieselgur (diatomite), sand, Absorbents and binders, neutralising agents.

#### Appropriate containment techniques

Use of adsorbent materials.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area. Avoid mixing with flammable or combustible substances (e.g. sawdust).

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Incompatible substances or mixtures: see section 7. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

##### - Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas. Take any precaution to avoid mixing with combustibles.

##### - Handling of incompatible substances or mixtures

##### - Keep away from

organic absorbing material, pulp/paper, bases (alkalis)

##### - Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Managing of associated risks

##### - Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

##### - Flammability hazards

Keep valves and fittings free from oil and grease.

##### - Incompatible substances or mixtures

Prohibition of joint storage (with): bases (alkalis),  
Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles.

##### - Floors

The materials shall display sufficient resistance to the prevalent chemical conditions (Acids).

##### - Protect against external exposure, such as

heat, frost, sunlight, direct light irradiation

##### - Consideration of other advice

Observe technical data sheet.

Lagerklasse (storage class according to TRGS 510, Germany): 5.2 (organic peroxides and self-reactive substances)

##### - Packaging compatibilities (Receptacles / Material)

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

These information are not available.

### 7.4 Other information

Provide for exhaust ventilation of containers.  
storage temperature of 0 °C and up to 30 °C  
recommended storage temperature: 5 - 20 °C

#### Incompatible materials

##### Incompatible materials

The application of solution is suitable for stainless steel, non-ferrous metals, ceramics, enamel, Teflon, PE, PP and all acid and oxidation resistant plastics.  
When used on EPDM, NBR, PVC, longer contact times and higher concentrations or temperatures should be avoided.  
When disinfecting copper and brass surfaces, discoloration may take place during prolonged contact times.

For all other materials, preliminary tests must be carried out at appropriate places.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

Occupational exposure limit values (Workplace Exposure Limits)								
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
EU	Acetic acid	64-19-7	IOELV	10	25			2009/161/EU
GB	Hydrogen peroxide	7722-84-1	WEL	1	1.4	2	2.8	EH40/2005

#### Notation

- STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified).
- TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified).

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)



#### Eye/face protection

Wear eye/face protection. Use safety goggle with side protection. Use protective eyewear to guard against splash of liquids. EN 166.

#### Skin protection

##### - Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### - Type of material

CR: chloroprene (chlorobutadiene) rubber

##### - Breakthrough times of the glove material

>480 minutes (permeation: level 6).

##### - Protective gloves - Splash protection

Recommended protective gloves (trademark/manufacturer):

##### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Acid-resistant, acid-proof overalls or apron. Acid-proof, acid-resistant boots or safety shoes.

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dust/spray/gases. In case of inadequate ventilation wear respiratory protection. Combination filtering device (EN 141). Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green). Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

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### Chemical protective clothing

Wear suitable protective clothing.

### Environmental exposure controls

Avoid release to the environment. Refer to special instructions/safety data sheets. Before discharge of the waste water into a municipal waste water treatment facility the product normally needs to be neutralised.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	liquid
Colour	colourless
Odour	stinging

#### Other safety parameters

pH (value)	2.5 – 3 (10 <sup>g/l</sup> , 20 °C) *
Melting point/freezing point	-18 °C
Initial boiling point and boiling range	105 °C
Flash point	71.5 °C at 1,013 mPa
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	
- Lower explosion limit (LEL)	4 vol%
- Upper explosion limit (UEL)	17 vol%
Vapour pressure	23 hPa at 25 °C
Density	1.13 – 1.16 g/cm <sup>3</sup>
Vapour density	this information is not available
Solubility(ies)	
- Water solubility	miscible in any proportion
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	270 – 430 °C
Viscosity	not determined
Explosive properties	none
Oxidising properties	oxidiser

### 9.2 Other information

Solvent content	100 %
Solid content	0 %

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Oxidising property. Substance or mixture corrosive to metals.

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

Exhibits an exothermic reaction (with): Caustic solutions (Alkalis), Heftige Reaktion mit Metallen, insbesondere mit solchen in Pulverform (Aluminium, Magnesium, Zink, Eisen usw.), Alkalimetallen, Metalloxiden, Aldehyden, Alkoholen, Aminen, Ammoniak, Kohlenstoff, Hydrazin, Hydriden, brennbaren Stoffen, Oxidationsmitteln (z.B. Permanganate), Ethern, Säuren, Anhydriden. Vorsicht! Mit organischen Stoffen/Flüssigkeiten wie z.B. Methenamin (Hexamethylentetramin) und Aceton ist die Bildung äußerst gefährlicher explosionsfähiger Peroxide (z.B. Tricycloacetonperoxid) möglich. Bedingungen, unter denen solche Stoffe entstehen können, sind sorgsam zu vermeiden.

Dangerous/dangerous reactions with: base metals ( formation of hydrogen), oxidisers

#### 10.4 Conditions to avoid

Keep away from heat. UV-radiation/sunlight.

#### 10.5 Incompatible materials

combustible materials

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

##### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

##### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Harmful if swallowed.

GHS of the United Nations, annex 4: May be harmful if inhaled.

##### - Acute toxicity estimate (ATE)

Oral 1,319 mg/kg.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Hydrogen peroxide	7722-84-1	Oral	500 mg/kg
Hydrogen peroxide	7722-84-1	Inhalation: vapour	11 mg/l/4h
Peracetic acid	79-21-0	Oral	500 mg/kg
Peracetic acid	79-21-0	Dermal	1,100 mg/kg
Peracetic acid	79-21-0	Inhalation: vapour	11 mg/l/4h

##### Skin corrosion/irritation

Causes severe skin burns and eye damage.



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### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

### **Carcinogenicity**

Shall not be classified as carcinogenic.

### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

### **Specific target organ toxicity - single exposure**

May cause respiratory irritation.

### **Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### **12.1 Toxicity**

Very toxic to aquatic life with long lasting effects.

### **12.2 Persistence and degradability**

Data are not available.

### **12.3 Bioaccumulative potential**

Data are not available.

### **12.4 Mobility in soil**

Data are not available.

### **12.5 Results of PBT and vPvB assessment**

Data are not available.

### **12.6 Other adverse effects**

Data are not available.

## SECTION 13: Disposal considerations

### **13.1 Waste treatment methods**

#### **Waste treatment of containers/packages**

It is a dangerous waste; only packages which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### **Relevant provisions relating to waste**

##### **List of wastes**

##### **Waste catalogue ordinance (Germany)**

Assign arising waste to a waste code according to the national list of waste

##### **- Product**

16 09 03x Peroxides, e.g. hydrogen peroxide.

##### **- Product residues**

15 01 10x Packaging containing residues of or contaminated by dangerous substances.

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**- Packagings**

15 01 02 Plastic packaging.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

<b>14.1 UN number</b>	3109
<b>14.2 UN proper shipping name</b>	ORGANIC PEROXIDE TYPE F, LIQUID
<b>Technical name</b> (hazardous ingredients)	Peracetic acid, hydrogen peroxide
<b>14.3 Transport hazard class(es)</b>	
<b>Class</b>	5.2 (organic peroxide)
<b>14.4 Packing group</b>	not assigned to a packing group
<b>14.5 Environmental hazards</b>	hazardous to the aquatic environment (Peracetic acid)
<b>14.6 Special precautions for user</b>	
	Provisions for dangerous goods (ADR) should be complied within the premises.
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	
	The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

**Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**

UN number	3109
Proper shipping name	ORGANIC PEROXIDE TYPE F, LIQUID
Class	5.2
Classification code	P1
Danger label(s)	5.2, fish and tree



Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	122, 274
Excepted quantities (EQ)	E0
Limited quantities (LQ)	125 ml
Transport category (TC)	2
Tunnel restriction code (TRC)	D
Hazard identification No	539
Emergency Action Code	2W

**International Maritime Dangerous Goods Code (IMDG)**

UN number	3109
Proper shipping name	ORGANIC PEROXIDE TYPE F, LIQUID

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Class	5.2
Marine pollutant	yes (hazardous to the aquatic environment)
Danger label(s)	5.2, fish and tree



Special provisions (SP)	122, 274, 323
Excepted quantities (EQ)	E0
Limited quantities (LQ)	125 ml
EmS	F-J, S-R
Stowage category	D
<b>International Civil Aviation Organization (ICAO-IATA/DGR)</b>	
UN number	3109
Proper shipping name	Organic peroxide type F, liquid
Class	5.2
Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	5.2



Special provisions (SP)	A20, A150
Excepted quantities (EQ)	E0

#### SECTION 15: Regulatory information

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

###### Relevant provisions of the European Union (EU)

###### Deco-Paint Directive (2004/42/EC)

VOC content 37.9 %

###### Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content 37.9 %

###### Regulation 648/2004/EC on detergents

Labelling of contents	
Constituents	Weight % content (or range)
Oxygen-based bleaching agents	30 % and more

##### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2009/161/EU	Commission Directive establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Met. Corr.	Substance or mixture corrosive to metals
NLP	No-Longer Polymer
Org. Perox.	Organic peroxide
Ox. Liq.	Oxidising liquid
PBT	Persistent, Bioaccumulative and Toxic
Ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin

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Abbr.	Descriptions of used abbreviations
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
VPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.  
health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H271	May cause fire or explosion; strong oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.