

Article No.: 742043  
Print date: 22.04.2020  
Version: 21.0

Descaling agent SM  
Revision date: 01.07.2019  
Issue date: 01.04.2019

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

**1.1. Product identifier**

Article No. (manufacturer/supplier) 742043  
Trade name/designation Descaling agent SM

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

**Relevant identified uses**

Cleaning agent  
Industrial use

**1.3. Details of the supplier of the safety data sheet**

**supplier (manufacturer/importer/downstream user/distributor)**

ph-cleantec GmbH  
Gutenbergstr. 14 Telephone: +49 711 518 0600  
DE - 70736 Fellbach Telefax: +49 711 518 0994

**Dept. responsible for information:**

E-mail (competent person) info@ph-cleantec.de

**1.4. Emergency telephone number**

Emergency telephone number +49 711 518 0600

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Eye Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation.

**2.2. Label elements**

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

**Hazard pictograms**



**Warning**

**Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

**Hazard components for labelling**

not applicable

**Supplemental Hazard information (EU)**

not applicable

**2.3. Other hazards**

No information available.

**SECTION 3: Composition / information on ingredients**

**3.2. Mixtures**

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

EC No.	REACH No.	Wt %
CAS No.	Designation	
INDEX No.	classification: // Remark	
201-069-1	01-2119457026-42	
77-92-9	Tricarboxylic acid	40 < 60
	Eye Irrit. 2 H319	

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31017-83-1 Fatty amine, ethoxylated 0,25 < 1  
Acute Tox. 4 H302 / Eye Dam. 1 H318 / Aquatic Acute 1 H400 / Aquatic  
Chronic 3 H412

**Additional information**

Full text of H-phrases: see section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

**5.2. Special hazards arising from the substance or mixture**

Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Move undamaged containers from immediate hazard area if it can be done safely.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Ventilate affected area.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

**6.4. Reference to other sections**

See protective measures under point 7 and 8.

**SECTION 7: Handling and storage**

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### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

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

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### Further information on storage conditions

Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C. Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

### 7.3. Specific end use(s)

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

not applicable

### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

#### Personal protection equipment

##### Respiratory protection

Avoid breathing spray.

##### Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber). Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

##### Eye/face protection

Wear closely fitting protective glasses in case of splashes.

##### Body protection

Wear suitable protective clothing and gloves.

##### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

##### Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance:

Physical state: Liquid  
Colour: colourless

Odour: typical

Odour threshold: No data available

pH at 20 °C: 2 / 2,0 Wt %  
Method: DIN 51369

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

flammability

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<b>Burning time (s):</b>	<b>No data available</b>
<b>Upper/lower flammability or explosive limits:</b>	
<b>Lower explosion limit:</b>	<b>No data available</b>
<b>Upper explosion limit:</b>	<b>No data available</b>
<b>Vapour pressure at 20 °C:</b>	<b>No data available</b>
<b>Vapour density:</b>	<b>No data available</b>
<b>Relative density:</b>	
<b>Density at 20 °C:</b>	<b>1,256 g/cm<sup>3</sup></b> Method: DIN 51757
<b>Solubility(ies):</b>	
<b>Water solubility (g/L) at 20 °C:</b>	<b>miscible</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>not determined</b>
<b>Auto-ignition temperature:</b>	<b>No data available</b>
<b>Decomposition temperature:</b>	<b>No data available</b>
<b>Viscosity at 20 °C:</b>	<b>11</b> Method: mm <sup>2</sup> /s DIN 51562/1
<b>Explosive properties:</b>	<b>No data available</b>
<b>Oxidising properties:</b>	<b>No data available</b>
9.2. <b>Other information</b>	*
<b>Pourpoint: &lt;=</b>	<b>-27 °C</b>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

not applicable

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

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

### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

#### STOT-single exposure; STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

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Based on available data, the classification criteria are not met.

**Practical experience/human evidence**

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]  
Do not allow to enter into surface water or drains.

**12.1. Toxicity**

Based on available data, the classification criteria are not met.

**Long-term Ecotoxicity**

Toxicological data are not available.

**12.2. Persistence and degradability**

Toxicological data are not available.

**12.3. Bioaccumulative potential**

Toxicological data are not available.

**Bioconcentration factor (BCF)**

Toxicological data are not available.

**12.4. Mobility in soil**

Toxicological data are not available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**

110113\* degreasing wastes containing hazardous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).**

**14.1. UN number**

not applicable

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

not applicable

**14.4. Packing group**

not applicable

**14.5. Environmental hazards**

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

**14.6. Special precautions for user**

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Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

#### **Further information**

##### **Land transport (ADR/RID)**

tunnel restriction code -

##### **Sea transport (IMDG)**

EmS-No. not applicable

#### **14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

### **SECTION 15: Regulatory information**

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

##### **EU legislation**

##### **National regulations**

##### **Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

##### **Substance/product listed in the following inventories:**

Not all ingredients are proved or listed in the US-TSCA.

#### **15.2. Chemical Safety Assessment**

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

### **SECTION 16: Other information**

#### **Full text of classification in section 3**

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

#### **Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Eye Irrit. 2                      Serious eye damage/eye irritation                      Calculation method.

#### **Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

**ph-cleantec**

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OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Further information**

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version