




# TM SMART GEL

## Flyleaf

Date of compilation: 2015-06-11

### Bill of materials

Name of substance	Number of pieces	Classification acc. to GHS	Pictograms
TM SMART GEL / component A	1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	
TM SMART GEL KOMPONENTE B	1	Resp. Sens. 1 / H334 Skin Sens. 1 / H317	
TM SMART GEL MIX	1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

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

### 1.1 Product identifier

Trade name **TM SMART GEL / component A**  
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses general use  
Uses advised against this information is not available

### 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

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

### 1.4 Emergency telephone number

Emergency information service **+43 (0)1 406 43 43 24h**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

GHS chapter	Hazard class and category		Hazard statement code(s)
3.2	skin corrosion/irritation	Cat. 2	(Skin Irrit. 2) H315
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2) H319

#### Remarks

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

### 2.2 Label elements

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

**Signal word** Warning

**Pictograms**

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

GHS07



### Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

### Precautionary statements

#### Precautionary statements - prevention

P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statements - response

P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see on this label).  
P332+P313 If skin irritation occurs: get medical advice/attention.  
P337+P313 If eye irritation persists: get medical advice/attention.

### 2.3 Other hazards

There is no additional information.


## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
sodium hydroxide	CAS No 1310-73-2  EC No 215-185-5	< 1	Met. Corr. 1 / H290 Skin Corr. 1A / H314 Eye Dam. 1 / H318	

For full text of abbreviations: see SECTION 16.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

### 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.

##### 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, carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

water jet

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

##### 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.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

### 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 it.

#### 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

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder). 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.

##### 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.

### 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.

##### • Handling of incompatible substances or mixtures

##### • Keep away from

(alkalis)

##### Advice on general occupational hygiene

Wash hands after use. Do not to 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.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

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

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

frost

#### Consideration of other advice

Observe technical data sheet

Lagerklasse (storage class according to TRGS 510, Germany): 12 (non-combustible liquids)

### 7.3 Specific end use(s)

These information are not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

#### Relevant DNELs/DMELs/PNECs and other threshold levels

- **relevant DNELs of components of the mixture**

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
sodium hydroxide	1310-73-2	DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

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

##### Eye/face protection

Wear eye/face protection.

##### Skin protection

- **hand protection**

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.

- **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	liquid
Colour	different
Odour	characteristic

#### Other physical and chemical parameters

pH (value)	not determined
Melting point/freezing point	0 °C
Initial boiling point and boiling range	100 °C
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	32 hPa at 25 °C
Density	not determined
Relative density	Information on this property is not available.
Solubility(ies)	not determined
Partition coefficient n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	>400 °C
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

### 9.2 Other information

Solvent content	96 %
Solid content	4 %

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

There is no additional information.

#### 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

Shall not be classified as acutely toxic.

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/eye irritation

Causes serious eye irritation.

##### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

##### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

##### Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

##### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

### SECTION 12: Ecological information

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

##### Aquatic toxicity (acute)

##### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
sodium hydroxide	1310-73-2	EC50	40.4 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 hours

#### 12.2 Process of 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

##### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

##### Waste treatment of containers/packagings

It is a dangerous waste; only packagings 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.

#### 13.2 Relevant provisions relating to waste

##### List of wastes

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

#### 13.3 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.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

### SECTION 14: Transport information

- 14.1** UN number (not subject to transport regulations)
- 14.2** UN proper shipping name not relevant
- 14.3** Transport hazard class(es)  
Class -
- 14.4** Packing group not relevant
- 14.5** Environmental hazards none (non-environmentally hazardous acc. to the dangerous goods regulations)
- 14.6** **Special precautions for user**  
There is no additional information.
- 14.7** **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
The cargo is not intended to be carried in bulk.

### 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)**
- **Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)**  
VOC content 0 %
  - **Directive on industrial emissions (VOCs, 2010/75/EU)**  
VOC content 0 %
- National regulations (Austria)**
- **Ordinance on combustible liquids (VbF)**  
VbF (group and hazard class): not assigned  
Flash point higher than 100 °C.
- National regulations (Switzerland)**
- Ordinance on the incentive tax on volatile organic compounds (VOCV)**  
VOC content (object of taxation):
- 15.2** **Chemical Safety Assessment**  
Chemical safety assessments for substances in this mixture were not carried out.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

### SECTION 16: Other information

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
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)
Eye Dam.	seriously damaging to the eye
Eye Irrit.	irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Met. Corr.	corrosive to metals
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
VbF	ordinance on combustible liquids (Austria)
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative

#### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 453/2010/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

#### 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).

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL / COMPONENT A**

Version number: GHS 1.0

Date of compilation: 2015-06-03

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

Code	Text
H290	may be corrosive to metals
H314	causes severe skin burns and eye damage
H315	causes skin irritation
H318	causes serious eye damage
H319	causes serious eye irritation

**Disclaimer**

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

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

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

### 1.1 Product identifier

Trade name **TM SMART GEL KOMPONENTE B**  
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses general use  
Uses advised against this information is not available

### 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

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

### 1.4 Emergency telephone number

Emergency information service **+43 (0)1 406 43 43 24h**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

GHS chapter	Hazard class and category	Hazard statement code(s)		
3.4R	respiratory sensitisation	Cat. 1	(Resp. Sens. 1)	H334
3.4S	skin sensitisation	Cat. 1	(Skin Sens. 1)	H317

#### Remarks

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

### 2.2 Label elements

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

**Signal word** Danger

**Pictograms**

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

GHS08



### Hazard statements

H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Precautionary statements

#### Precautionary statements - prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P285 In case of inadequate ventilation wear respiratory protection.

#### Precautionary statements - response

P304+P341 IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P333+P313 If skin irritation or rash occurs: get medical advice/attention.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
P363 Wash contaminated clothing before reuse.

#### Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant.

**Hazardous ingredients for labelling:** disodium peroxodisulphate

### 2.3 Other hazards

There is no additional information.






## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
disodium peroxodisulphate	CAS No 7775-27-1  EC No 231-892-1	1 - < 5	Ox. Sol. 3 / H272 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 STOT SE 3 / H335	  
calcium nitrate	CAS No 13477-34-4  EC No 233-332-1	1 - < 5	Acute Tox. 4 / H302 Eye Dam. 1 / H318	 

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

For full text of abbreviations: see SECTION 16.

## 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. 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.

#### 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, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

#### 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.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

## 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 it.

### 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

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder). 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.

#### 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.

## 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.

#### • Handling of incompatible substances or mixtures

#### • Keep away from

(alkalis)

#### Advice on general occupational hygiene

Wash hands after use. Do not to 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.



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

## 7.2 Conditions for safe storage, including any incompatibilities

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

frost

### Consideration of other advice

Observe technical data sheet

Lagerklasse (storage class according to TRGS 510, Germany): 10 (combustible liquids)

## 7.3 Specific end use(s)

These information are not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

#### Relevant DNELs/DMELs/PNECs and other threshold levels

- **relevant DNELs of components of the mixture**

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
disodium peroxodisulphate	7775-27-1	DNEL	2.06 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
disodium peroxodisulphate	7775-27-1	DNEL	18.2 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
disodium peroxodisulphate	7775-27-1	DNEL	2.06 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
calcium nitrate	13477-34-4	DNEL	13.9 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
calcium nitrate	13477-34-4	DNEL	98 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects

- **relevant PNECs of components of the mixture**

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
disodium peroxodisulphate	7775-27-1	PNEC	0.0763 mg/l	aquatic organisms	freshwater	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	0.011 mg/l	aquatic organisms	marine water	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	3.6 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	0.275 mg/kg	benthic organisms	sediments	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	0.0396 mg/kg	pelagic organisms	sediments	short-term (single instance)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
disodium peroxodisulphate	7775-27-1	PNEC	0.015 mg/kg	terrestrial organisms	soil	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	0.763 mg/l	aquatic organisms	water	continuous
calcium nitrate	13477-34-4	PNEC	0.45 mg/l	aquatic organisms	freshwater	short-term (single instance)
calcium nitrate	13477-34-4	PNEC	0.045 mg/l	aquatic organisms	marine water	short-term (single instance)
calcium nitrate	13477-34-4	PNEC	18 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
calcium nitrate	13477-34-4	PNEC	4.5 mg/l	aquatic organisms	water	continuous

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

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

##### Eye/face protection

Wear eye/face protection.

##### Skin protection

###### • hand protection

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.

###### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

### SECTION 9: Physical and chemical properties

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

##### Appearance

Physical state	liquid
Colour	pink
Odour	characteristic

##### Other physical and chemical parameters

pH (value)	9 - 10
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	32 hPa at 25 °C
Density	not determined
Relative density	Information on this property is not available.
Solubility(ies)	not determined
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

#### 9.2 Other information

Solvent content	83.92 %
Solid content	16.08 %

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

There is no additional information.

#### 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

Shall not be classified as acutely toxic.

##### • Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
disodium peroxodisulphate	7775-27-1	oral	1,200
calcium nitrate	13477-34-4	oral	<2,000

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

##### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

## **Specific target organ toxicity (STOT)**

Shall not be classified as a specific target organ toxicant.

## **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

### **12.2 Process of 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**

#### **Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### **Waste treatment of containers/packagings**

It is a dangerous waste; only packagings 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.

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

#### **List of wastes**

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

### **13.3 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.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

### SECTION 14: Transport information

- 14.1** UN number (not subject to transport regulations)
- 14.2** UN proper shipping name not relevant
- 14.3** Transport hazard class(es)  
Class -
- 14.4** Packing group not relevant
- 14.5** Environmental hazards none (non-environmentally hazardous acc. to the dangerous goods regulations)
- 14.6** **Special precautions for user**  
There is no additional information.
- 14.7** **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
The cargo is not intended to be carried in bulk.

### 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)**
- **Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)**  
VOC content 0 %
  - **Directive on industrial emissions (VOCs, 2010/75/EU)**  
VOC content 0 %
- National regulations (Austria)**
- **Ordinance on combustible liquids (VbF)**  
VbF (group and hazard class): not assigned  
Flash point higher than 100 °C.
- National regulations (Switzerland)**
- Ordinance on the incentive tax on volatile organic compounds (VOCV)**  
VOC content (object of taxation):
- 15.2** **Chemical Safety Assessment**  
Chemical safety assessments for substances in this mixture were not carried out.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

## SECTION 16: Other information

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	acute toxicity
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
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)
Eye Dam.	seriously damaging to the eye
Eye Irrit.	irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Ox. Sol.	oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Resp. Sens.	respiratory sensitisation
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
Skin Sens.	skin sensitisation
STOT SE	specific target organ toxicity - single exposure
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
VbF	ordinance on combustible liquids (Austria)
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative

### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 453/2010/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL KOMPONENTE B**

Version number: GHS 1.0

Date of compilation: 2015-06-03

## 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
H272	may intensify fire; oxidiser
H302	harmful if swallowed
H315	causes skin irritation
H317	may cause an allergic skin reaction
H318	causes serious eye damage
H319	causes serious eye irritation
H334	may cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	may cause respiratory irritation

## Disclaimer

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



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL MIX**

Version number: GHS 1.0

Date of compilation: 2015-06-11

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

### 1.1 Product identifier

Trade name **TM SMART GEL MIX**  
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses general use  
Uses advised against this information is not available

### 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

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

### 1.4 Emergency telephone number

Emergency information service **+43 (0)1 406 43 43 24h**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

GHS chapter	Hazard class and category	Hazard statement code(s)
3.2	skin corrosion/irritation	Cat. 2 (Skin Irrit. 2) H315
3.3	serious eye damage/eye irritation	Cat. 2 (Eye Irrit. 2) H319

#### Remarks

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

#### Supplemental hazard information

Code	Supplemental hazard information
EUH208	contains disodium peroxodisulphate. May produce an allergic reaction

### 2.2 Label elements

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL MIX**

Version number: GHS 1.0

Date of compilation: 2015-06-11

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

#### Signal word

Warning

#### Pictograms

GHS07



#### Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

#### Precautionary statements

##### Precautionary statements - prevention

P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

##### Precautionary statements - response

P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see on this label).  
P332+P313 If skin irritation occurs: get medical advice/attention.  
P337+P313 If eye irritation persists: get medical advice/attention.

#### Additional labelling requirements

EUH208 Contains disodium peroxodisulphate. May produce an allergic reaction.

### 2.3 Other hazards

There is no additional information.




## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
disodium peroxodisulphate	CAS No 7775-27-1  EC No 231-892-1	< 1	Ox. Sol. 3 / H272 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 STOT SE 3 / H335	  

## Safety Data Sheet

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

### TM SMART GEL MIX

Version number: GHS 1.0

Date of compilation: 2015-06-11

For full text of abbreviations: see SECTION 16.

#### 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.

###### 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, carbon dioxide (CO<sub>2</sub>)

###### Unsuitable extinguishing media

water jet

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

###### 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.

## Safety Data Sheet

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

### TM SMART GEL MIX

Version number: GHS 1.0

Date of compilation: 2015-06-11

#### 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 it.

##### 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

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder). 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.

###### 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.

#### 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.

###### • Handling of incompatible substances or mixtures

###### • Keep away from

(alkalis)

###### Advice on general occupational hygiene

Wash hands after use. Do not to 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.

## Safety Data Sheet

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

### TM SMART GEL MIX

Version number: GHS 1.0

Date of compilation: 2015-06-11

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

##### Consideration of other advice

Observe technical data sheet

Lagerklasse (storage class according to TRGS 510, Germany): 12 (non-combustible liquids)

#### 7.3 Specific end use(s)

These information are not available.

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### National limit values

##### Occupational exposure limit values (Workplace Exposure Limits)

##### Relevant DNELs/DMELs/PNECs and other threshold levels

###### • relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
disodium peroxodisulphate	7775-27-1	DNEL	2.06 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
disodium peroxodisulphate	7775-27-1	DNEL	18.2 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
disodium peroxodisulphate	7775-27-1	DNEL	2.06 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects

###### • relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
disodium peroxodisulphate	7775-27-1	PNEC	0.0763 mg/l	aquatic organisms	freshwater	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	0.011 mg/l	aquatic organisms	marine water	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	3.6 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	0.275 mg/kg	benthic organisms	sediments	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	0.0396 mg/kg	pelagic organisms	sediments	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	0.015 mg/kg	terrestrial organisms	soil	short-term (single instance)
disodium peroxodisulphate	7775-27-1	PNEC	0.763 mg/l	aquatic organisms	water	continuous

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL MIX**

Version number: GHS 1.0

Date of compilation: 2015-06-11

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

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

##### Eye/face protection

Wear eye/face protection.

##### Skin protection

###### • hand protection

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.

###### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	liquid
Colour	different
Odour	characteristic

#### Other physical and chemical parameters

pH (value)	not determined
Melting point/freezing point	0 °C
Initial boiling point and boiling range	100 °C
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	32 hPa at 25 °C
Density	not determined
Relative density	Information on this property is not available.
Solubility(ies)	not determined

## Safety Data Sheet

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

### TM SMART GEL MIX

Version number: GHS 1.0

Date of compilation: 2015-06-11

Partition coefficient n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	>400 °C
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

#### 9.2 Other information

Solvent content	95.39 %
Solid content	4.615 %

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

There is no additional information.

#### 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

Shall not be classified as acutely toxic.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL MIX**

Version number: GHS 1.0

Date of compilation: 2015-06-11

• **Acute toxicity of components of the mixture**

Name of substance	CAS No	Exposure route	ATE
disodium peroxodisulphate	7775-27-1	oral	1,200

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

**Summary of evaluation of the CMR properties**

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

**Specific target organ toxicity (STOT)**

Shall not be classified as a specific target organ toxicant.

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### SECTION 12: Ecological information

**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

**12.2 Process of 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.



## Safety Data Sheet

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

### TM SMART GEL MIX

Version number: GHS 1.0

Date of compilation: 2015-06-11

#### SECTION 13: Disposal considerations

##### 13.1 Waste treatment methods

###### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

###### Waste treatment of containers/packagings

It is a dangerous waste; only packagings 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.

##### 13.2 Relevant provisions relating to waste

###### List of wastes

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

##### 13.3 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

- |      |  |  |
|------|--|--|
| 14.1 | UN number  | (not subject to transport regulations)                                       |
| 14.2 | UN proper shipping name  | not relevant   |
| 14.3 | Transport hazard class(es)   |  |
|      | Class  | -  |
| 14.4 | Packing group  | not relevant   |
| 14.5 | Environmental hazards  | none (non-environmentally hazardous acc. to the dangerous goods regulations) |
| 14.6 | Special precautions for user   |  |
|      | There is no additional information.                                      |  |
| 14.7 | Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code |  |
|      | The cargo is not intended to be carried in bulk.                         |  |

#### 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)

- Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content 0 %

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

VOC content 0 %

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL MIX**

Version number: GHS 1.0

Date of compilation: 2015-06-11

### National regulations (Austria)

#### • Ordinance on combustible liquids (VbF)

VbF (group and hazard class): not assigned

Flash point higher than 100 °C.

### National regulations (Switzerland)

#### Ordinance on the incentive tax on volatile organic compounds (VOCV)

VOC content (object of taxation):

## 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	acute toxicity
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
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)
Eye Dam.	seriously damaging to the eye
Eye Irrit.	irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Ox. Sol.	oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Resp. Sens.	respiratory sensitisation
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
Skin Sens.	skin sensitisation
STOT SE	specific target organ toxicity - single exposure

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
**TM SMART GEL MIX**

Version number: GHS 1.0

Date of compilation: 2015-06-11

Abbr.	Descriptions of used abbreviations
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
VbF	ordinance on combustible liquids (Austria)
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative

### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 453/2010/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

### 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
H272	may intensify fire; oxidiser
H302	harmful if swallowed
H315	causes skin irritation
H317	may cause an allergic skin reaction
H319	causes serious eye irritation
H334	may cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	may cause respiratory irritation

### Disclaimer

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