

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

Revision Date 21.03.2018

Version 8.12

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**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Catalogue No. 106563

Product name Sodium peroxide granular for analysis ACS,ISO

REACH Registration Number A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS-No. 1313-60-6

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

Identified uses Reagent for analysis  
For additional information on uses please refer to the Merck Chemicals portal ([www.merckgroup.com](http://www.merckgroup.com)).

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

Company Merck KGaA \* 64271 Darmstadt \* Germany \* Phone:+49 6151 72-0

Responsible Department LS-QHC \* e-mail: [prodsafe@merckgroup.com](mailto:prodsafe@merckgroup.com)

**1.4 Emergency telephone number** Please contact the regional company representation in your country.

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**SECTION 2. Hazards identification****2.1 Classification of the substance or mixture**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

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## Classification (REGULATION (EC) No 1272/2008)

Oxidizing solid, Category 1, H271  
Skin corrosion, Category 1A, H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

#### *Hazard pictograms*



#### *Signal word*

Danger

#### *Hazard statements*

H271 May cause fire or explosion; strong oxidizer.

H314 Causes severe skin burns and eye damage.

#### *Precautionary statements*

##### Prevention

P210 Keep away from heat.

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

##### Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

*Index-No.* 011-003-00-1

## 2.3 Other hazards

None known.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

---

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## SECTION 3. Composition/information on ingredients

### 3.1 Substance

Formula	Na <sub>2</sub> O <sub>2</sub> (Hill)
Index-No.	011-003-00-1
EC-No.	215-209-4
Molar mass	77,98 g/mol

### Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical name (Concentration)*

CAS-No.	Registration number	Classification
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sodium peroxide (<= 100 % )

1313-60-6 \*)

Oxidizing solid, Category 1, H271

Skin corrosion, Category 1A, H314

\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 3.2 Mixture

Not applicable

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## SECTION 4. First aid measures

### 4.1 Description of first aid measures

*General advice*

First aider needs to protect himself.

After inhalation: fresh air. Call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

---

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

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

emphysema, Pain, Diarrhoea, Vomiting, collapse  
Irritation and corrosion, Cough, Shortness of breath  
Risk of blindness!

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

No information available.

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## **SECTION 5. Firefighting measures**

### **5.1 Extinguishing media**

*Suitable extinguishing media*

Sand, Dry powder

*Unsuitable extinguishing media*

Carbon dioxide (CO<sub>2</sub>), Water, Foam

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

Not combustible.

May not get in touch with:

Water

Caution! in contact with water product releases:

hydrogen peroxide

Has a fire-promoting effect due to release of oxygen.

Ambient fire may liberate hazardous vapours.

### **5.3 Advice for firefighters**

*Special protective equipment for firefighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

---

## *Further information*

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## **SECTION 6. Accidental release measures**

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### **6.4 Reference to other sections**

Indications about waste treatment see section 13.

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## **SECTION 7. Handling and storage**

### **7.1 Precautions for safe handling**

#### *Advice on safe handling*

Keep workplace dry. Do not allow product to come into contact with water.

Observe label precautions.

#### *Hygiene measures*

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

---

## *Storage conditions*

Dry.

Tightly closed. Separately or together with other oxidising substances only and away from sources of ignition and heat. Because of their oxidation potential these products can raise the burning rate of combustible substances substantially or ignite combustible substances on contact with them.

Recommended storage temperature see product label.

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

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## **SECTION 8. Exposure controls/personal protection**

### **8.1 Control parameters**

### **8.2 Exposure controls**

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### **Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

#### *Eye/face protection*

Tightly fitting safety goggles

#### *Hand protection*

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

---

splash contact:

Glove material: Nitrile rubber  
Glove thickness: 0,11 mm  
Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

#### *Other protective equipment*

protective clothing

#### *Respiratory protection*

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **Environmental exposure controls**

Do not let product enter drains.

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## **SECTION 9. Physical and chemical properties**

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

Form solid  
Colour light yellow

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

---

Odour	odourless
Odour Threshold	Not applicable
pH	ca. 12,8 at 100 g/l 20 °C
Melting point	660 °C
Boiling point/boiling range	Not applicable, (decomposition)
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	2,8 g/cm <sup>3</sup> at 20 °C
Relative density	No information available.
Water solubility	100 g/l at 20 °C (decomposition)



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

---

Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	No information available.
Decomposition temperature	750 °C
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	The substance or mixture is classified as oxidizing with the category 1.

## 9.2 Other data

Ignition temperature	Not applicable
Bulk density	1.138 kg/m <sup>3</sup>

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## SECTION 10. Stability and reactivity

### 10.1 Reactivity

Has a fire-promoting effect due to release of oxygen.

### 10.2 Chemical stability

hygroscopic

### 10.3 Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapours with:

Alcohols, Benzene, combustible substances, acetic acid, carbon disulfide, hydrogen sulphide, anilines, Powdered metals, Ether, ethanol, Methanol, Iron, Water, Tin

Risk of explosion with:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

---

Organic Substances, Metals, sulfur, phosphorus, performic acid, sodium thiosulphate, metallic chlorides, carbon, glycerol, Acetic anhydride, carbides, Boron, arsenic, antimony, ammonium compounds, powdered aluminium, PHOSPHORUS TRICHLORIDE, sugars, charcoal, powdered magnesium

Water, with, Organic Substances

carbon dioxide, with, Metals

Exothermic reaction with:

Aldehydes, acids, nitrides, Sulphur dichloride

## 10.4 Conditions to avoid

Exposure to moisture

Strong heating (decomposition).

## 10.5 Incompatible materials

no information available

## 10.6 Hazardous decomposition products

in the event of fire: See section 5.

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## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### *Acute oral toxicity*

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

#### *Acute inhalation toxicity*

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract, emphysema

#### *Acute dermal toxicity*

This information is not available.

#### *Skin irritation*

Causes severe burns.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

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## *Eye irritation*

Causes serious eye damage.  
Risk of blindness!

## *Sensitisation*

This information is not available.

## *Germ cell mutagenicity*

This information is not available.

## *Carcinogenicity*

This information is not available.

## *Reproductive toxicity*

This information is not available.

## *Teratogenicity*

This information is not available.

## *Specific target organ toxicity - single exposure*

This information is not available.

## *Specific target organ toxicity - repeated exposure*

This information is not available.

## *Aspiration hazard*

This information is not available.

## **11.2 Further information**

After uptake:

pain, Vomiting, Diarrhoea, Circulatory collapse

Decomposition of the substance with tissue moisture.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

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## **SECTION 12. Ecological information**

### **12.1 Toxicity**

No information available.

### **12.2 Persistence and degradability**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563

Product name Sodium peroxide granular for analysis ACS,ISO

---

No information available.

## 12.3 Bioaccumulative potential

*Partition coefficient: n-octanol/water*

Not applicable

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## 12.6 Other adverse effects

*Additional ecological information*

Biological effects:

Possible decomposition products in case of hydrolysis are:

hydrogen peroxide Sodium hydroxide

Harmful effect due to pH shift.

Product reacts with water.

Discharge into the environment must be avoided.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

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## SECTION 13. Disposal considerations

### *Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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## SECTION 14. Transport information

### Land transport (ADR/RID)

14.1 UN number	UN 1504
14.2 Proper shipping name	SODIUM PEROXIDE
14.3 Class	5.1
14.4 Packing group	I
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes
Tunnel restriction code	E

### Inland waterway transport (ADN)

Not relevant

### Air transport (IATA)

14.1 UN number	UN 1504
14.2 Proper shipping name	SODIUM PEROXIDE
14.3 Class	5.1
14.4 Packing group	I
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes
IATA (Passenger)	Not permitted for transport

### Sea transport (IMDG)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

---

14.1 UN number UN 1504  
14.2 Proper shipping name SODIUM PEROXIDE  
14.3 Class 5.1  
14.4 Packing group I  
14.5 Environmentally hazardous --  
14.6 Special precautions for user yes  
EmS F-G S-Q  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not relevant

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## SECTION 15. Regulatory information

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

#### *EU regulations*

Major Accident Hazard SEVESO III  
Legislation OXIDIZING LIQUIDS AND SOLIDS  
P8  
Quantity 1: 50 t  
Quantity 2: 200 t  
Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
Product name Sodium peroxide granular for analysis ACS,ISO

---

Substances of very high concern (SVHC)

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of  $\geq 0.1\%$  (w/w).

*National legislation*

Storage class 5.1A

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H271 May cause fire or explosion; strong oxidizer.

H314 Causes severe skin burns and eye damage.

### Training advice

Provide adequate information, instruction and training for operators.

### Labelling

*Hazard pictograms*



*Signal word*

Danger

*Hazard statements*

H271 May cause fire or explosion; strong oxidizer.

H314 Causes severe skin burns and eye damage.

*Precautionary statements*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 106563  
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---

## Prevention

P210 Keep away from heat.

P221 Take any precaution to avoid mixing with combustibles, heavy-metal compounds, acids and alkalis.

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

## Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

## Regional representation

This information is given on the authorised Safety Data Sheet for your country.

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*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*