

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.01.2024

Revision: 11.01.2024

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

**- Product identifier**

**- Trade name** Natriumpersulfat

**- Article number:** 73110-00 / 73110-01

**- CAS Number:**

7775-27-1

**- EC number:**

231-892-1

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

**- Application of the substance / the preparation** Basic chemical (without special defined application)

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

**- Manufacturer/Supplier:**

Bungard Elektronik GmbH & Co. KG

Rilkestraße 1

-51570 Windeck E-Mail:

Telefon +49 2292/5036

Telefax +49 2292/6175

info@bungard.de

Internet:www.bungard.de

**- Emergency telephone number:**

Poison Control Center, Mainz

Tel. 00 49 / 61 31 / 19 240

### 2 Hazards identification

**- Classification of the substance or mixture**

**- Classification according to Regulation (EC) No 1272/2008**

Ox. Sol. 2 H272 May intensify fire; oxidiser.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

**- Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R22: Harmful if swallowed.

Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

O; Oxidising

R8: Contact with combustible material may cause fire.

**- Label elements**

**- Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

**- Hazard pictograms**



GHS03 GHS07 GHS08

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- **Signal word** Danger- **Hazard statements**

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

- **Precautionary statements**

P221 Take any precaution to avoid mixing with combustibles.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P285 In case of inadequate ventilation wear respiratory protection.

P220 Keep/Store away from clothing/combustible materials.

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P341 **IF INHALED:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P405 Store locked up.

- **Other hazards**- **Results of PBT and vPvB assessment**- **PBT:** Not applicable.- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**- **CAS No. Designation:**

7775-27-1 disodium peroxodisulphate

- **Identification no(s):**- **EC number:** 231-892-1

### 4 First aid measures

- **Description of first aid measures**- **General advice:**

Take affected persons out of danger area and instruct to lie down.

In case of unconsciousness bring patient into stable side position for transport.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.- **After skin contact**

Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention.

Change with product contaminated clothing immediately.

- **After eye contact** Rinse immediately opened eye for several minutes under running water. Then consult doctor.- **After swallowing**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

- **Information for doctor**- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
  - Water
  - Foam
  - Fire-extinguishing powder
  - Carbon dioxide
- **For safety reasons unsuitable extinguishing agents** Organic materials
- **Special hazards arising from the substance or mixture**
  - Avoid contact with combustible substances - danger of combustion.
  - Heat causes decomposition. Release of oxygen supports combustion.
  - Formation of sulphur dioxide (SO<sub>2</sub>) and sulphur trioxide (SO<sub>3</sub>) in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
  - See section 8.
  - Wear full protective suit with self-contained breathing apparatus.
- **Additional information**
  - Endangered containers in the surrounding area should be cooled with a water-hose.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - Avoid contact with skin, eyes and clothes.
  - Ensure adequate ventilation
- **Environmental precautions:**
  - Prevent material from reaching sewage system, holes and cellars.
  - If large amounts are released, the authorities must be informed.
- **Methods and material for containment and cleaning up:**
  - Pick up mechanically and rinse the remainder with water. Avoid dust development. Place in suitable container and send to be recycled or disposed (taking item 13 into account).
- **Reference to other sections**
  - Never return leaked/spilled product to original container because of reuse (danger of decomposition).

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling**
  - Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.
  - Prevent formation of dust.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage** Keep containers tightly closed. Store in cool, dry conditions.
- **Requirements to be met by storerooms and containers:**
  - Observe official regulations on storage and handling of water hazardous substances

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- **Information about storage in one common storage facility:** Store away from flammable substances.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class 5.1 B (VCI - concept, 1998)**
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** In case of dust development, suction is needed.
- **Control parameters**
- **Components with critical values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from food, beverages and fodder.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.  
Do not inhale dust. Prevent formation of dust.
- **Breathing equipment:**  
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- **Recommended filter device for short term use:**  
Filter P2  
Take care of limitations and rules for the use of breathing protection equipment (BGR 190).
- **Protection of hands:** Protective gloves.
- **Material of gloves**  
Butyl rubber, BR  
PVC gloves
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:**  
Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

## \* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Crystalline
<b>Colour:</b>	White
- **Smell:** Characteristic
- **pH-value (250 g/l) at 20°C:** 3.5-3.8
- **Change in condition**

<b>Melting point/Melting range:</b>	> 180°C (Decomposition)
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<b>Boiling point/Boiling range:</b>	n.a. °C Not determined
<b>- Flash point:</b>	Product is non-flammable nor potentially explosive
<b>- Ignition temperature:</b>	
<b>Decomposition temperature:</b>	> 180°C
<b>- Critical values for explosion: Oxidizing properties</b>	Contact with combustible material may cause fire.
<b>- Density at 20°C</b>	ca. 2.59 g/cm <sup>3</sup>
<b>- Settled apparent density at 20°C</b>	1180-1250 kg/m <sup>3</sup>
<b>- Solubility in / Miscibility with Water at 20°C:</b>	545 g/l
<b>- Segregation coefficient (n-octanol/water):</b>	n.a. log POW
<b>- Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Stable under normal conditions, heat causes decomposition.  
Exothermic decomposition at temperatures > 180°C.
- **Possibility of hazardous reactions** Product is an oxidising agent. Release of oxygen supports combustion.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Combustible materials can cause ignition.
- **Hazardous decomposition products:** Products of thermal decomposition: sulphur dioxide and sulphur trioxide.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

Oral	LD50	> 800 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Additional toxicological information:**  
Prolonged or repeated contact may cause complaints to skin and respiratory tracts.
- **Sensitisation** May cause sensitisation by inhalation and skin contact.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

EC 50 / 48 h	133 mg/l (Daphnia magna)
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LC 50 / 96 h | 771 mg/l (Oncorhynchus mykiss)

- **Persistence and degradability** Abiotic degradation because of hydrolysis/reduction.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No bioaccumulation expected.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:**
- **Type of test Effective concentration Method Assessment**
- Bacteria toxicity: *Pseudomonas putida*, inhibition of cell proliferation - starts at 36 mg/l, assessment: hazardous to water.
- Behaviour in sewage processing plants: rapid hydrolysis, reduction into: oxygen, sodium ions, sulphate
- **Additional ecological information:**
- **General notes:**
- Do not allow to enter drainage system, surface or ground water.
- Water hazard class 1 (Assessment by list): slightly hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
- **Recommendation**
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key number:**
- Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.
- **Uncleaned packagings:** Disposal must be made according to official regulations.
- **Recommendation:** After complete emptying and cleaning, send to be reconditioned or recycled.
- **Recommended cleaning agent:** Water

### \*14 Transport information

- <b>UN-Number</b>	
- <b>ADR, IMDG, IATA</b>	UN1505
- <b>UN proper shipping name</b>	
- <b>ADR</b>	1505 SODIUM PERSULPHATE
- <b>IMDG, IATA</b>	SODIUM PERSULPHATE
- <b>Transport hazard class(es)</b>	
- <b>ADR</b>	
- <b>Class</b>	5.1 (O2) Oxidising substances.
- <b>Label</b>	5.1
- <b>IMDG, IATA</b>	
- <b>Class</b>	5.1 Oxidising substances.

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- <b>Label</b>	5.1
- <b>Packing group</b> - <b>ADR, IMDG, IATA</b>	III
- <b>Environmental hazards:</b> - <b>Marine pollutant:</b>	no
- <b>Special precautions for user</b> - <b>Kemler Number:</b> - <b>EMS Number:</b>	Warning: Oxidising substances. 50 F-A,S-Q
- <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
- <b>UN "Model Regulation":</b>	UN1505, SODIUM PERSULPHATE, 5.1, III

#### \*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Information about limitation of use:** Employment restrictions concerning young persons must be observed.
- **Decree to be applied in case of technical fault:**  
Das Produkte unterliegt der EG-Richtlinie 82/501/EWG und Änderungen  
StörfallVO: nach Anhang III Teil 2
- **Water hazard class:**  
Water hazard class 1 (self assessment according to German VwVwS (Regulations for water-hazardous substances): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations 4. BImSchV, Chemikalienverbotsverordnung, TRGS 515**
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

#### 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:** see item 1: Informing departement
- **Abbreviations and acronyms:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent
- **\* Data compared to the previous version altered.**