

WTW Safety Data Sheet
According to EC Directives 91/155/EEC

1. Identification of the substance/preparation and of the company/undertaking

Product name:

Reagent A / oxidizing reagent

Ord. No.: 821 099

Model: RA/P511

Manufacturer:

WTW Wissenschaftlich-Technische Werkstätten GmbH, Dr.-Karl-Slevogt-Straße 1, D-82362 Weilheim, Germany, Tel.: +49(0)881 183-0, Fax.: +49(0)881 183-420

Emergency telephone:
(001)-703-527-3887

2. Composition/information on ingredients

Chemical characterization: Aqueous saline solution

Hazardous ingredients: Sodium peroxydisulfate

Hazard symbols: Oxidizing (O) and harmful (Xn)

R-phrases: 8-22-36/37/38-42/43

Content: 4,8 %

CAS-No.: 7775-27-1

EINECS-No.: 231-892-1

EG-No.: 231-892-1

3. Hazards identification

May cause sensitization by skin contact.

4. First aid measures

After inhalation: Fresh air

After skin contact: Wash off with plenty of water.
Remove contaminated clothing.

After eye contact: Rinse out with plenty of water with the eyelid held wide open. Summon eye specialist.

After ingestion: Make injured person drink plenty of water, induce vomiting, summon doctor.

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5. Fire-fighting measures

<i>Suitable extinguishing media:</i>	Water, CO ₂ , foam, powder
<i>Unsuitable extinguishing media:</i>	No information available
<i>Special risks:</i>	Development of hazardous gases and vapours possible in the event of fire (sulfur oxides).
<i>Other information:</i>	Use chemical protection clothing and selfcontained apparatus in dangerous zone. Non combustible.

6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Avoid contact with eyes and skin.
<i>Environmental-protection measures:</i>	Do not allow to enter sewerage system.
<i>Procedures for cleaning/absorption:</i>	Take up with liquid-absorbent and non combustible material (e.g. sand). Forward for disposal. Clean up affected area with water.

7. Handling and storage

<i>Handling:</i>	No further requirements
<i>Storage:</i>	Store tightly closed.

8. Exposure control/personal protection

<i>Specific control parameters:</i>	None
Personal protective equipment	
<i>Respiratory protection:</i>	Only required when aerosols are generated.
<i>Eye protection:</i>	Protective glasses
<i>Hand protection:</i>	Gloves (nitrile rubber)
<i>Industrial hygiene:</i>	Wash hands and face after working with solution. Change contaminated clothing.

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9. Physical and chemical properties

<i>Form:</i> Liquid	<i>Colour:</i> Colourless	<i>Odour:</i> Odourless
<i>pH-value</i>	ca. 3,0-3,3 at 25°C	
<i>Melting temperature:</i>	°C	
<i>Boiling temperature:</i>	°C	
<i>Ignition temperature:</i>	°C	
<i>Flash point:</i>	°C	
<i>Explosion limite lower:</i>	/	
<i> upper:</i>	/	
<i>Density:</i>	ca. 1.04 g/cm ³	
<i>Solubility in water:</i>	miscible	
<i>Thermal decomposition:</i>	> 148°C for sodium peroxydisulfate	

10. Stability and reactivity

<i>Conditions to be avoided:</i>	Heating
<i>Substances to be avoided:</i>	Reducing agents, combustible substances
<i>Hazardous decomposition products:</i>	Hydrogen peroxide, oxygen and eventually ozone
<i>Further information:</i>	None

11. Toxicological information

<i>Acute toxicity:</i>	LD 50 oral: 902 mg/kg for sodium peroxydisulfate
<i>Further toxicological information:</i>	After skin contact: Severe irritations. Risk of sensitization. After eye contact: Severe irritations. After swallowing: Mucosal irritations, coughing, dyspnoea, nausea, headache. Possible damages: pulmonary oedema. After inhalation of aerosols: Irritation symptoms in the respiratory tract. Sensitizer.

12. Ecological information

<i>Ecotoxic effects:</i>	Solution forms toxic decomposition products. Harmful effect on aquatic organisms. Harmful effect due to pH-shift.
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13. Disposal considerations

Products: There are no uniform regulations for the disposal of chemicals or residues. The disposal is regulated through corresponding regional laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

Packaging: Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, noncontaminated packaging may be treated like household waste or recycled.

14. Transport information

ADR/GGVSE: UN 3216, Persulfate, anorganische, wässrige Lösung, N.A.G. (Natriumperoxodisulfat), 5.1 III

IMDG/GGVSee: UN 3216, Persulphates, inorganic, aqueous solution, n.o.s. (Sodium peroxodisulfate), 5.1 III, EmS-No.: F-A, S-Q

ICAO/IATA: UN 3216, Persulphates, inorganic, aqueous solution, n.o.s. (Sodium peroxodisulfate), 5.1 III

Further information: None

15. Regulatory information

Labelling according to EC directives

Symbol: Irritant (Xi)
R-phrases: 43 May cause sensitization by skin contact.
S-phrases: 24-26-37 Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves.

German regulations

Water pollution class: WGK: 1 slightly polluting substance
Storage class: 5.1 B
Regulation on combustible liquids: VbF: Aqueous solution, non-combustible
Other regulations: None

16. Other information

Date of issue: 20.05.2008
Supersedes edition of: First edition
Reason for alteration: First edition

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