

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 D / color reagent

Ord. No.: 821 096

Model: RD/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: Acid saline solution

<i>Hazardous ingredients:</i>	Sulfuric acid and potassium antimony(III)-oxide tartrate hemihydrate
Sulfuric acid	Potassium antimony(III)oxide tartrate hemihydrate
<i>Hazard symbols:</i> Corrosive (C)	<i>Hazard symbols:</i> Harmful (Xn) and dangerous for the environment (N)
<i>R-phrases:</i> 35	<i>R-phrases:</i> 20-22-51/53
<i>Content:</i> 34 %	<i>Content:</i> 0,06 %
<i>CAS-No.:</i> 7664-93-9	<i>CAS-No.:</i> 28300-74-5
<i>EINECS-No.:</i> 231-639-5	<i>EINECS-No.:</i> 234-293-3
<i>EG-No.:</i> 231-639-5	<i>EG-No.:</i> 234-293-3

3. Hazards identification

Causes severe burns. Toxic to aquatic organisms.
May causes long-term adverse effects in the aquatic environment.

4. First aid measures

<i>After inhalation:</i>	Fresh air. Immediately summon doctor.
<i>After skin contact:</i>	Wash off with plenty of water. Remove contaminated clothing.
<i>After eye contact:</i>	Rinse out with plenty of water with the eyelid held wide open. Summon eye specialist.
<i>After ingestion:</i>	Make injured person drink plenty of water, (if necessary several liters). Avoid vomiting. Risk of perforation. Immediately summon doctor. Do not attempt to neutralize.

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5. Fire-fighting measures

<i>Suitable extinguishing media:</i>	Water, CO ₂ , foam and powder
<i>Unsuitable extinguishing media:</i>	No information available
<i>Special risks:</i>	Development of dangerous gases and vapours possible in the event of fire (sulfur oxides).
<i>Other information:</i>	Hydrogen may form upon contact with metals (danger of explosion). Use chemical protection clothing and selfcontained breathing apparatus in the dangerous zone. Non-combustible.

6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Do not inhale vapours and aerosols. 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 material. Forward for disposal. Clean up affected area with water.

7. Handling and storage

<i>Handling:</i>	No further requirements
<i>Storage:</i>	Tightly closed at +4°C to +8°C.

8. Exposure control/personal protection

<i>Specific control parameters:</i>	MAK-value (Germany): 0.1 mg/m ³ for sulfuric acid MAK-value (Germany): 0,5 mg/m ³ for antimony
Personal protective equipment	
<i>Respiratory protection:</i>	Required when dusts or vapours 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>	< 1 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. 1.25 g/cm ³	
<i>Solubility in water:</i>	miscible	
<i>Thermal decomposition:</i>	/	

10. Stability and reactivity

<i>Conditions to be avoided:</i>	Strong heating
<i>Substances to be avoided:</i>	Metals (danger of explosion) Alkalis and bases
<i>Hazardous decomposition products:</i>	No information available
<i>Further information:</i>	None

11. Toxicological information

<i>Acute toxicity:</i>	LD 50 (oral, rat): 115 mg/kg for potassium antimony(III)oxide tartrate hemihydrate
<i>Further toxicological information:</i>	After inhalation of aerosols: damage to the affected mucous membrane. After skin contact: severe burns. After eye contact: burns, corneal lesions, loss of sight. After swallowing: severe pain, risk of perforation, nausea, vomiting and diarrhoea. After a latency period of several weeks possibly pyloric stenosis.

12. Ecological information

<i>Ecotoxic effects:</i>	Toxic for aquatic organisms. Harmful effect due to pH shift. Caustic even in diluted form. May cause long-term adverse effect in the aquatic environment. Do not allow to enter drinking water supplies, waste water, or soil.
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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 2796, Schwefelsäure, 8 II
IMDG/GGVSee: UN 2796, Sulphuric acid, 8 II, EmS-No.: F-A, S-B
ICAO/IATA: UN 2796, Sulphuric acid, 8 II

Further information: None

15. Regulatory information

Labelling according to EC directives

Symbol: Corrosive (C)
R-phrases: 35 Causes severe burns.
S-phrases: 26-36/37/39-45 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

German regulations

Water pollution class; WGK: 1 slightly polluting substance
Storage class: 8 B
Regulation on combustible liquids; VbF: 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.