



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Material name</b>	<b>SODIUM METABISULFITE</b>
<b>Version #</b>	02
<b>Revision date</b>	08-26-2011
<b>CAS #</b>	7681-57-4
<b>Product Codes</b>	<b>J.T.Baker: 3550, 3551</b> <b>Macron: 7770, 7776, 7777</b>
<b>Synonym(s)</b>	PYROSULFUROUS ACID, DISODIUM SALT * SODIUM PYROSULFITE (NA2S2O5)
<b>Manufacturer</b>	Avantor Performance Materials, Inc.
<b>Address</b>	3477 Corporate Parkway Suite #200 Center Valley, PA 18034 US
<b>Customer Service</b>	855-282-6867
<b>24 Hour Emergency</b>	908-859-2151
<b>Chemtrec</b>	800-424-9300

## 2. Hazards Identification

<b>Emergency overview</b>	WARNING  Irritating to eyes and skin. Exposure to powder or dusts may be irritating to eyes, nose and throat. Allergic reactions are possible.
<b>OSHA regulatory status</b>	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
<b>Potential health effects</b>	
<b>Routes of exposure</b>	Ingestion. Inhalation. Skin contact. Eye contact.
<b>Eyes</b>	Causes eye irritation. Risk of serious damage to eyes.
<b>Skin</b>	Causes skin irritation.
<b>Inhalation</b>	Causes respiratory tract irritation. Coughing. Difficulty in breathing. May cause allergic respiratory reaction.
<b>Ingestion</b>	Irritating. May cause nausea, stomach pain and vomiting.
<b>Potential environmental effects</b>	Ecological injuries are not known or expected under normal use.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
SODIUM METABISULFITE	7681-57-4	90 - 100

## 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
<b>Ingestion</b>	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

## 5. Fire Fighting Measures

<b>Flammable properties</b>	The product is not flammable. No unusual fire or explosion hazards noted.
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#### Extinguishing media

**Suitable extinguishing media** Water.

#### Protection of firefighters

**Protective equipment and precautions for firefighters** In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for fire-fighters** Firefighters should wear full protective clothing including self contained breathing apparatus.

**Specific methods** In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

### 6. Accidental Release Measures

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**Personal precautions** Ventilate the area. Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits. Wear appropriate protective equipment and clothing during clean-up.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods for containment** If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product.

**Methods for cleaning up** Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Collect dust using a vacuum cleaner equipped with HEPA filter. Following product recovery, flush area with water.

### 7. Handling and Storage

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**Handling** Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid contact with eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handling. Handle and open container with care.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store in a closed container away from incompatible materials. Guard against dust accumulation of this material. Use care in handling/storage.

### 8. Exposure Controls / Personal Protection

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#### ACGIH

Material	Type	Value
SODIUM METABISULFITE (7681-57-4)	TWA	5.0000 mg/m3

**Engineering controls** Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

**Eye / face protection** Wear safety glasses with side shields (or goggles). Provide eyewash station and safety shower.

**Skin protection** Wear suitable protective clothing and gloves.

**Respiratory protection** Wear respirator with dust filter. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

**General hygiene considerations** Do not breathe dust. Avoid contact with eyes.

### 9. Physical & Chemical Properties

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**Appearance** Crystalline. Granular.

**Color** White. Off-white

**Odor** Slight. Sulphurous.

<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Solid.
<b>Form</b>	Powder.
<b>Melting point</b>	302 °F (150 °C)
<b>Freezing point</b>	302 °F (150 °C)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	1.48
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	540 g/l
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available.
<b>Molecular weight</b>	190.11 g/mol
<b>Molecular formula</b>	Na2-S2-O5

## 10. Chemical Stability & Reactivity Information

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<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Moisture.
<b>Incompatible materials</b>	Alkalies. Acids. Water, moisture. Oxidizing agents.
<b>Hazardous decomposition products</b>	Contact with acids liberates toxic gas. Sulfur oxides. Sodium oxides.

## 11. Toxicological Information

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### Toxicological data

#### Product

SODIUM METABISULFITE (7681-57-4)

#### Test Results

Acute Oral LD25 Sheep: 2.375 g/kg  
 Acute Oral LD50 Sheep: 2.515 g/kg  
 Acute Oral LD75 Sheep: 2.675 g/kg  
 Acute Other LD50 Mouse: 910 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Local effects</b>	Inhalation of dusts may cause respiratory irritation.
<b>Chronic effects</b>	Not available.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>ACGIH Carcinogens</b>	
SODIUM METABISULFITE (CAS 7681-57-4)	A4 Not classifiable as a human carcinogen.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
SODIUM METABISULFITE (CAS 7681-57-4)	3 Not classifiable as to carcinogenicity to humans.
<b>Skin corrosion/irritation</b>	Not available.
<b>Epidemiology</b>	Not available.
<b>Neurological effects</b>	Not available.

## 12. Ecological Information

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<b>Ecotoxicity</b>	This product has no known eco-toxicological effects.
<b>Environmental effects</b>	Not available.
<b>Persistence and degradability</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available

## 13. Disposal Considerations

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<b>Disposal instructions</b>	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
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## 14. Transport Information

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### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory Information

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<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.  CERCLA/SARA Hazardous Substances - Not applicable.
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### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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**Section 311 hazardous chemical** Yes

### Inventory status

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

SODIUM METABISULFITE (CAS 7681-57-4) Listed.

**Saf-T-Data**  
 Health: 2 - Moderate  
 Flammability: 0 - None  
 Reactivity: 1 - Slight  
 Contact: 3 - Severe  
 Lab Protective Equip: D - GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES  
 Storage Color Code: G - Green (General Storage)

**16. Labeling Info**

**Label Hazard Warning** WARNING! Irritating to eyes. Irritating to skin. Exposure to powder or dusts may be irritating to eyes, nose and throat. Allergic reactions are possible.

**Label Precautions** Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. For industrial use only - not for use in foods.

**Label First Aid** Flush eyes and skin with warm water. If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. If ingestion of a large amount does occur, call a poison control center immediately. Get medical attention if irritation develops or persists.

**17. Other Information**

**NFPA ratings**  
 Health: 2  
 Flammability: 0  
 Instability: 0

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**Issue date**

08-26-2011

**This data sheet contains  
changes from the previous  
version in section(s):**

Exposure Controls / Personal Protection: Respiratory protection  
Other Information: Disclaimer