

1. Product and Company Identification

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

2. Hazards Identification

Emergency overview	WARNING Irritating to eyes and skin. Exposure to powder or dusts may be irritating to eyes, nose and throat. Allergic reactions are possible.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Ingestion. Inhalation. Skin contact. Eye contact.
Eyes	Causes eye irritation. Risk of serious damage to eyes.
Skin	Causes skin irritation.
Inhalation	Causes respiratory tract irritation. Coughing. Difficulty in breathing. May cause allergic respiratory reaction.
Ingestion	Irritating. May cause nausea, stomach pain and vomiting.
Potential environmental effects	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

First aid procedures	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Inhalation	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.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

5. Fire Fighting Measures

Flammable properties	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

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

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

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

Appearance	Crystalline. Granular.
Color	White. Off-white
Odor	Slight. Sulphurous.

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

10. Chemical Stability & Reactivity Information

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

11. Toxicological Information

Toxicological data

Product	Test Results
SODIUM METABISULFITE (7681-57-4)	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.

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

12. Ecological Information

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

13. Disposal Considerations

Disposal instructions	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

DOT
Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	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)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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Section 311 hazardous chemical	Yes
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Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
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

Disclaimer
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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