



MATERIAL SAFETY DATA SHEET

Trade Name: **PS-SM**

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Names:

Sodium metabisulfite, Sodium disulfite, Sodium pyrosulfite

Chemical Formula:

$\text{Na}_2\text{S}_2\text{O}_5$

Company Identification:

www.PARSulfite.ir

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical and Common Name	CAS Registry Number	Wt. %
Sodium metabisulfite	7681-57-4	97.5

3. HAZARDS IDENTIFICATION

Physical/chemical hazards: Reducing agent. contact with acids liberates
Environmental hazards: Depletes oxygen content of water courses.
Human health hazards: harmful if swallowed. Irritating to respiratory system.
*may cause suffocation if used in unventilated areas.

4. FIRST AID MEASURES

Effect and symptoms:

Skin contact: May cause skin irritation and/or dermatitis.
Eye contact: Irritating to eyes on contact.
Inhalation: Irritating to respiratory tract, may cause allergic reaction.
Allergic persons and workers with difficulty in breathing should not be employed in powder application.
Ingestion: irritating to gastrointestinal tract.

First aid measures:

Ingestion: Drink plenty of water. Rinse mouth with plenty of water. if you feel unwell, seek medical advice (show the label where possible).

Inhalation:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
Skin contact:	Wash off immediately with plenty of water.
Eye contact:	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

5. FIRE FIGHTING MEASURES

Flammability:	non-flammable. Burning produces obnoxious and toxic fumes.
<u>Suitable extinguishing media</u>	
Suitable	water, dry powder, foam, carbon dioxide
Not suitable	
Hazardous decomposition products	sulphur dioxide/sulphur trioxide
Special protective equipment For firefighters	In the event of fire, wear self contained breathing apparatus. Wear suitable gloves and eye/face protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear suitable gloves and eye/face protection.*Handle in well ventilated areas or use breathing apparatus in confined areas.
Environmental precautions:	Do not let product enter drains.
Methods for clean up:	Shovel into suitable container for disposal. After cleaning, flush away trace with water.

7. HANDLING AND STORAGE

Handling/Storage:	Keep away from acids and oxidizing agents.*Use in a well ventilated area.
<u>Packaging material</u>	
Suitable	Polyethylene containers.
Not suitable	Mild steel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational Exposure limit

Chemical name	Sodium Metabisulfite
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OEL (United kingdom)	*2 ppm/5 mg/m ³ , 8 Hour TWA. *5 ppm/13 mg/m ³ , 15 min.
Recommended monitoring procedures	*personnel sampler or Draeger/Gastec tubes
<u>Personal protection equipment</u>	
Respiratory protection	Dust mask.*Local Exhaust Ventilation or breathing apparatus may be required if handling in a confined area.
Skin and body protection	Protective suit
Hand protection	Rubber or plastic gloves
Eye protection	Safety glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

Form :	Crystalline powder
Color:	White/off-white
Odor:	*Pungent sulphur dioxide odor especially when dissolved in water.
Molecular weight:	190.1
pH:	4 - 4.8(10% solution)
Bulk density:	Approximately, 1.03 - 1.2 gr/cm ³
Solubility :	*40% w/w in water

10. STABILITY AND REACTIVITY

Stability:	stable at normal conditions
Conditions to Avoid:	heating can release hazardous gases.
Material to avoid:	oxidizing agents, acids.
Hazardous Products of Deposition:	sulphur dioxide/sulphur trioxide

11. TOXICOLOGICAL INFORMATION

Chemical name	Sodium Metabisulfite
<u>Acute toxicity</u>	
Oral	LD50, oral rat: 1540 mg/m ³ .harmful if swallowed.
Inhalation	Irritating to respiratory system. May cause allergic reactions. May cause suffocation if handled in confined spaces.
Skin irritation	Moderate skin irritation.
Eye irritation	Moderate eye irritation on contact.

12. ECOLOGICAL INFORMATION

Persistence and degradability degrades to form sulphates in the natural environment	
Ecotoxicity effect	Will deplete oxygen levels in water courses. LC50 Rainbow Trout: 100-200 mg/L/96 hour. Toxicity Threshold, Cyprinidae Minnows: 60-65 mg/L (6 hour).

13. DISPOSAL CONSIDERATIONS

Methods of disposal: other information	In accordance with local national regulations
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14. TRANSPORT INFORMATION

UN-NO	Not applicable.
IMDG/ADR Class	Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

<u>EC Regulations</u>	
EC Classification (67/548/EEC-88/379/EEC-92/32/EEC)	Xn-Harmful.
Label name	SODIUM METABISULFITE.
R-phrases(s)	*R22-Harmful if swallowed.R31-Contact with acids liberates toxic gas.*R36/37-Irritating to eye and respiratory system.
S-phrases(s)	S14-keep away from acids and oxidizing agents.

16. OTHER INFORMATION

<u>History</u>			
Date of issue	05/14/99	Previous Revision	1
Revision number	2	Date	05/16/96
SDS prepared by	SB	Previous SDS	
SDS revised by	SB		