

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 08-Feb-2010 Revision Date 16-Apr-2014 Revision Number 1

1. Identification

Product Name Sodium metabisulfite

Cat No.: S242-12; S242-212; S242-400LB; S242-500; S243-10; S244-3; S244-500

Synonyms Sodium pyrosulfite; Disodium pyrosulfite; Disodium Disulfite

(Granular/Powder/NF/FCC/Laboratory/Certified ACS)

Recommended Use Laboratory chemicals

Uses advised against No Information available

Details of the supplier of the safety data sheet

CompanyEmergency Telephone NumberFisher ScientificCHEMTREC®, Inside the USA: 800-

One Reagent Lane 424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 001-

Tel: (201) 796-7100 703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity

Serious Eye Damage/Eye Irritation

Category 1

Specific target organ toxicity (single exposure)

Category 3

Target Organs - Central nervous system (CNS).

Specific target organ toxicity - (repeated exposure) Category 2

Target Organs - Kidney, Liver.

Label Elements

Signal Word

Danger

Hazard Statements

Harmful if swallowed Causes serious eye damage May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Response

Get medical attention/advice if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician.

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Contact with acids liberates toxic gas

Other hazards

May produce an allergic reaction.

3. Composition / information on ingredients

Haz/Non-haz

Component	CAS-No	Weight %
Sodium metabisulfite	7681-57-4	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation

if victim ingested or inhaled the substance; induce artificial respiration with a respiratory

medical device. Get medical attention immediately if symptoms occur.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

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Most important symptoms/effects Causes eye burns. Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire..

Unsuitable Extinguishing Media No information available.

> **Flash Point** Not applicable

Method -No information available

Autoignition Temperature

Explosion Limits

No information available.

Upper No data available Lower No data available

Sensitivity to Mechanical

Impact

No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products Sodium oxides. Sulfur oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA

Health **Flammability** Instability Physical hazards 3 N/A O

6. Accidental release measures

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid **Personal Precautions**

contact with skin, eyes and clothing.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological

Information.

Up

Methods for Containment and Clean Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for

disposal.

7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do

not breathe dust. Do not get in eyes, on skin, or on clothing. Keep away from acids. Wash

hands before breaks and immediately after handling the product.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near acids.

8. Exposure controls / personal protection

Exposure Guidelines

	Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Soc	dium metabisulfite	TWA: 5 mg/m ³	(Vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV	
Sodium metabisulfite	TWA: 5 mg/m ³		TWA: 5 mg/m ³	

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and

safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. Physical and chemical properties

Physical StatePowder SolidAppearanceOff-whiteOdorrotten-egg like

Odor Threshold No information available.

pH 4-6 5% aq.sol. **Melting Point/Range** 150°C / 302°F

Boiling Point/Range No information available.

Flash Point Not applicable

Evaporation RateNo information available. **Flammability (solid,gas)**No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information available.

Vapor Density

No information available.

No information available.

Relative Density 1.4

Solubility Soluble in water Partition coefficient; n-octanol/water No data available

Autoignition Temperature No data available No information available.

Decomposition temperature 120 °C

Viscosity No information available.

Molecular FormulaNa2 O5 S2Molecular Weight190.1

10. Stability and reactivity

Reactive Hazard No

Stability Air sensitive. Moisture sensitive.

Conditions to Avoid Avoid Avoid dust formation. Incompatible products. Excess heat. Exposure to air or moisture over

prolonged periods.

Incompatible Materials Acids, Strong oxidizing agents

Hazardous Decomposition Products Sodium oxides, Sulfur oxides

Hazardous Polymerization Hazardous polymerization does not occur

Hazardous ReactionsContact with acids liberates toxic gas.

11. Toxicological information

Acute Toxicity

Component Information

Component LD50 Oral		LD50 Dermal	LC50 Inhalation	
Sodium metabisulfite	1131 mg/kg (Rat)	2 g/kg (Rat)	Not listed	

Toxicologically Synergistic

Products

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Severe eye irritant

Sensitization Repeated contact may cause allergic reactions in very susceptible persons

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium metabisulfite	7681-57-4	Not listed				

Mutagenic Effects Mutagenic effects have occurred in experimental animals.

Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS).

STOT - repeated exposure Kidney, Liver.

Aspiration hazard No information available.

Symptoms / effects, No information available

both acute and delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.. See actual entry in RTECS for

complete information.

12. Ecological information

Ecotoxicity

. Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium metabisulfite	40 mg/L EC50 = 96 h	32 mg/L LC50 96 h	EC50 = 56 mg/L 17 h	89 mg/L EC50 = 24 h
	48 mg/L EC50 = 72 h			

Persistence and Degradability No information available.

Bioaccumulation/ Accumulation No information available

Mobility

Component	log Pow		
Sodium metabisulfite	-3.7		

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national

hazardous waste regulations to ensure complete and accurate classification

14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

15. Regulatory information

International Inventories

Ī	Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
I	Sodium metabisulfite	X	X	-	231-673-0	-		X	X	X	X	X

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

CERCLANot applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium metabisulfite	Χ	Χ	Χ	•	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class D2B Toxic materials



16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS