

Material Safety Data Sheet

Creation Date 08-Feb-2010

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Revision Number 1

1. PRODUCT AND COMPANY 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

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

One Reagent Lane 424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 703-

Tel: (201) 796-7100 527-3887

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Harmful if swallowed. Risk of serious damage to eyes. May cause skin and respiratory tract irritation. Contact with acids

liberates toxic gas.

Appearance Off-white Physical State Powder odor rotten-egg like

Target Organs Eyes, Central nervous system (CNS), Liver, Kidney

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eves Risk of serious damage to eyes.

Skin May cause irritation. May be harmful in contact with skin.

Inhalation May cause irritation of respiratory tract. May be harmful if inhaled.

Ingestion Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Chronic Effects Experiments have shown reproductive toxicity effects on laboratory animals. May cause

adverse liver effects. May cause adverse kidney effects.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions

Preexisting eye disorders. Skin disorders.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	CAS-No	Weight %
Sodium metabisulfite	7681-57-4	97

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.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Not applicable **Flash Point**

No information available. Method No information available.

Autoignition Temperature

Explosion Limits

Upper No data available Lower No data available

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to

extinguish surrounding fire..

Unsuitable Extinguishing Media No information available.

No information available. **Hazardous Combustion Products**

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.

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 2 Flammability 0 Instability 1 Physical hazards N/A

6. ACCIDENTAL RELEASE MEASURES

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

contact with skin, eyes and clothing.

Environmental Precautions Should not be released into the environment.

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

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

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

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

safety showers are close to the workstation location.

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Sodium 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	

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face Protection

Skin and body protection **Respiratory 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

Wear appropriate protective gloves and clothing to prevent skin exposure

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Powder **Appearance** Off-white odor rotten-egg like

Odor Threshold No information available.

4-6 5% aq.sol.

No information available. **Vapor Pressure** No information available. **Vapor Density Viscosity** No information available. No information available. **Boiling Point/Range**

Melting Point/Range 150°C / 302°F Decomposition temperature °C 120 °C

9. PHYSICAL AND CHEMICAL PROPERTIES

1.4

Flash Point Not applicable

Evaporation RateNo information available.

Specific Gravity

SolubilitySoluble in waterlog PowNo data available

Molecular Weight190.1Molecular FormulaNa2 O5 S2

10. STABILITY AND REACTIVITY

Stability Air sensitive. Moisture sensitive.

Conditions to 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 Reactions. Contact 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

Irritation Severe eye irritant

Toxicologically Synergistic

Products

No information available.

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

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.

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

complete information.

Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

. Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium metabisulfite	EC50 72 h 48 mg/L EC50 96 h 40 mg/L EC50 72 h 48 mg/L	Not listed	EC50 = 56 mg/L 17 h	EC50 24 h 89 mg/L

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

DOT Not regulated

TDG Not regulated

<u>IATA</u> Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Sodium metabisulfite	Х	Х	-	231-673- 0	-		Х	Х	Х	Х	KE- 12701
											Х

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 HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act

Not applicable

Clean Air Act

Not applicable

OSHA

Not applicable

CERCLA

Not 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	X	X	X	-	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

Non-controlled

16. OTHER INFORMATION

Prepared By Regulatory Affairs

Thermo Fisher Scientific Tel: (412) 490-8929

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Revision Summary "***", and red text indicates revision

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 MSDS