

SAFETY DATA SHEET

Creation Date 08-February-2010	Revision Date 18-January-2018	Revision Number 5		
1. Identification				
Product Name	Sodium metabisulfite			
Cat No. :	S242-12; S242-212; S242-400LB; S242-500; S2	243-10; S244-3; S244-500		
CAS-No Synonyms	7681-57-4 Sodium pyrosulfite; Disodium pyrosulfite; Disodium Disulfite (Granular/Powder/NF/FCC/Laboratory/Certified ACS)	9		
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use			
Details of the supplier of the safet	y data sheet			
Company Importer/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada Tel: 1-800-234-7437	Manufacture Fisher Scient One Reagent Fair Lawn, N Tel: (201) 796	ific t Lane J 07410		
Emergency Telephone Number CHEMTREC®, Inside the USA: 800- CHEMTREC®, Outside the USA: 00				
	2. Hazard(s) identification			
Classification				
WHMIS 2015 Classification	Classified as hazardous under the Hazardous Products Reg	gulations (SOR/2015-17)		
Acute oral toxicity Serious Eye Damage/Eye Irritatior Health Hazards Not Otherwise Cla Contact with acids liberates toxic ga	Assified Category 1			

Label Elements

Signal Word Danger

Hazard Statements Harmful if swallowed Causes serious eye damage Contact with acids liberates toxic gas



Precautionary Statements Prevention

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

Take any precaution to avoid mixing with acids

Do not breathe dust/fumes/gas/mist/vapours/spray

Wear respiratory protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER/doctor

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant

3. Composition/Information on Ingredients

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. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects Notes to Physician	Causes eye burns. Causes severe eye damage. 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 Method -	No information available No information available

Autoignition Temperature

Explosion Limits	
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 3	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	Use personal protective eq Avoid contact with skin, eye	uipment. Ensure adequate ver es and clothing.	ntilation. Avoid dust formation.
Environmental Precautions	Should not be released into	the environment. See Section to surface water or sanitary se	
Methods for Containment and C Up	lean Avoid dust formation. Swee disposal.	ep up or vacuum up spillage ar	nd collect in suitable container for

	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.
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	Alberta	British Columbia	Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium metabisulfite	TWA: 5 mg/m ³	(Vacated) 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.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection

Goggles

Hand Protection	Wear appropriate protective gloves and clothing to prevent skin exposure.			
Glove material Natural rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness -	Glove comments Splash protection only	

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

Prevent product from entering drains.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

9. Physical and chemical properties				
Physical State	Powder Solid			
Appearance	Off-white			
Odor	pungent			
Odor Threshold	No information available			
рН	4-6 5% aq.sol			
Melting Point/Range	150 °C / 302 °F			
Boiling Point/Range	No information available			
Flash Point	No information available			
Evaporation Rate	Not applicable			
Flammability (solid,gas)	No information available			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	No information available			
Vapor Density	Not applicable			
Specific Gravity	1.4			
Solubility	Soluble in water			
Partition coefficient; n-octanol/water	No data available			
Autoignition Temperature				
Decomposition Temperature	120 °C			
Viscosity	Not applicable			
Molecular Formula	Na2 O5 S2			
Molecular Weight	190.1			
10	Stability and repativity			

10. Stability and reactivity

Reactive Hazard

Yes

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 Product	s Sodium oxides, Sulfur oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	Contact with acids liberates toxic gas.

11. Toxicological information

Acute Toxicity

Product Information

Component Informa	ation						
Component		LD50 Oral				Inhalation	
Sodium metabisulfite LD50 = 1310 r			Rat) LD50 > 2 g/kg (Rat)		No	Not listed	
Toxicologically Syn Products	-	No information available s as well as chronic effects from short and long-term exposure					
Delayed and immed	late effects as	s well as chronic effe	cts from short ar	a long-term expo	<u>osure</u>		
Irritation		Risk of serious dar	mage to eyes				
Sensitization		No information ava	ilable				
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Sodium metabisulfite	7681-57-4	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects No information			ailable				
Reproductive Effect	ts	No information ava	ilable.				
Developmental Effe	cts	No information ava	ilable.				
Teratogenicity		No information ava	ilable.				
STOT - single expos STOT - repeated ex		None known None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	s,both acute ar	nd No information available					
Endocrine Disrupto	r Information	No information available					
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.					

12. Ecological information

Ecotoxicity

Do not empty into drains. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium metabisulfite	EC50: = 40 mg/L, 96h	LC50: = 32 mg/L, 96h static	EC50 = 56 mg/L 17 h	EC50: = 89 mg/L, 24h
	(Desmodesmus	(Lepomis macrochirus)	-	(Daphnia magna Straus)

	subspicatus) EC50: = 48 mg/L, 72h (Desmodesmus subspicatus)							
Persistence and Degradability		Soluble in water Persistence is unlikely based on information available.						
Bioaccumulation/ Accumulation		No information available.						
Mobility Will like		Will likely be	Il likely be mobile in the environment due to its water solubility.					
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
DOT TDG	Not regulated
<u>IATA</u>	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

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

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

	16. Other information
Prepared By	Regulatory Affairs
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	Email: EMSDS.RA@thermofisher.com
Creation Date	08-February-2010
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Print Date	18-January-2018
Revision Summary	This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS