


Safety Data Sheet

Section 1. Identification		
Product Identifier	Sodium Metabisulfite	Version: 5 Effective Date: 20 February, 2016
Other Means Of Identification	None	
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Recommended Use and Restrictions On Use	Bleaching & disinfecting agent for textiles, laundering, paper and fermentation industries. Chemical additive, food processing, photographic agent. No restriction.	
Product Family	Inorganic salt	
24 Hour Emergency	Canutec (613) 996-6666	

Section 2. Hazard Identification	
Hazard Classification	
Health Hazards	Acute Toxicity(oral) – Category 4 Acute Toxicity(dermal) – Category 5 Eye Damage/Irritation – Category 1
Environmental Hazards	Hazardous To The Aquatic Environment – Short Term (Acute) Hazard - Category 3
Signal Word	Damage
Hazard Statement	Harmful if swallowed. May be harmful in contact with skin. Causes serious eye damage. Harmful to aquatic life.
Precautionary Prevention Statement	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye and face protection.
Precautionary Response Statement	IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth.

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	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a doctor.
Precautionary Storage Statement	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Precautionary Disposal Statement	Dispose of contents/container in accordance with local regulations.
Other Hazards	None

Section 3. Composition / Information on Ingredients

Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Sodium Metabisulfite	N/A	7681-57-4	60 - 100

Section 4. First-Aid Measures

Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed	Burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting., chest pain, Difficulty in breathing, Gastrointestinal discomfort, Vomiting, Diarrhoea, Persons with allergies and/or asthma may exhibit hypersensitivity to sulfites.,
Immediate Medical Attention and Special Treatment	Treat symptomatically.

Section 5. Fire-Fighting Measures

Suitable and Unsuitable Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Hazardous Combustion Products	Toxic fumes, sulphur dioxide.
Specific Hazards Arising From the Product	Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Sodium oxides

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Special Protective Equipment and Precautions For Fire-Fighters	Fire-fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.
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Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Gloves (nitrile), coveralls (chemical resistant), respirator for sulphur dioxide, safety glasses. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental Precautions	Do not allow to enter any water course or storm sewer. Minimise any spread to land or waterways.
Methods and Materials For Containment and Clean-Up	Ventilate area. Carefully sweep up material avoid creating dust. Place in a suitable container for disposal. Wash area with copious amounts of water to remove residues.

Section 7. Handling and Storage	
Precautions For Safe Handling	Handle with care irritant. Can cause respiratory effects and allergic reactions. In food processing never apply dry product directly to fish or shrimp, never use in confined spaces, always prepare solutions in an open well ventilated area.
Conditions For Safe Storage	Store in a cool, dry, well ventilated place. Remove all sources of ignition. Protect against moisture and water damage.

Section 8. Exposure Controls / Personal Protection				
Control Parameters Sodium Metabisulfite	TWA: 8 Hr 5 mg/m ³ OSHA * Immediately Dangerous to Life and Health	STEL: 15 min	Ceiling	IDLH *
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Use mechanical exhaust or laboratory fumehood to avoid exposure. Ensure eye wash station and safety shower are available.			
Individual Protective Measures	For dusty or misty conditions:			
Eye / Face Protection	Safety glasses			
Skin Protection	Chemical resistant coveralls, gloves			
Respiratory Protection	air purifying respirator fitted with appropriate cartridges must be worn.			

Section 9. Physical and Chemical Properties	
Appearance	White solid, fine granules
Odour	Pungent sulphur odour
Odour Threshold	No data
pH	4.3 (1% solution)
Flash Point	No data
Boiling Point and Boiling Range	No data
Melting Point and Freezing Point	Decomposes >150 °C
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not flammable
Upper and Lower Flammability or Explosive Limits	No data
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Relative Density	1.48
Solubility	Soluble. 30 % @ 16 °C
Partition co-efficient, n-Octanol/Water	log Pow: -3.7 at 25 °C (77 °F)
Auto-ignition Temperature	No data
Decomposition Temperature	No data
Viscosity	Not applicable

Section 10. Stability and Reactivity	
Reactivity	Reacts with acids with liberation of toxic gases
Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur
Conditions to Avoid	Heat. Temperatures above 150 °C – will evolve toxic and corrosive gas – sulphur dioxide.
Incompatible Materials	Oxidising agents. Water. Acids.
Hazardous Decomposition Products	NOTE: Oxidisers may cause strong exothermic reactions. Acids, water and ice will yield sulphur dioxide gas, which is toxic, corrosive and potentially deadly.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium metabisulfite	1.131g/kg (Rat)	>2g/kg (Rabbit)	

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Likely Routes of Exposure	
Skin:	Prolonged contact with powder or solutions will cause irritation.
Eyes:	Dust or mists will cause irritation of the eyes. Severe irritation can result for exposure, with pain, tearing, redness, stinging and burning sensation.
Inhalation:	Contact with acids liberates irritating and potentially fatal sulphur dioxide gas. May cause severe or potentially allergic reactions in some asthmatics and sulphite sensitive individuals. May cause irritation of the upper respiratory tract. Symptoms may include: bronchio-constriction, sweating, flushing, hives, rapid heart rate, decreased blood pressure and anaphylaxis.
Ingestion:	May result in irritation of the mouth and gastrointestinal tract. Large doses may cause violent colic and diarrhoea, circulatory disturbances and central nervous system depression.
Acute Toxicity Estimates (ATE)	LD50 Oral - Rat - 1,540 mg/kg LD50 Dermal - Rat - > 2,000 mg/kg Harmful if swallowed or in contact with skin.
STOT (Specific Target Organ Toxicity) – Single Exposure	Not classified
Aspiration Toxicity	Not classified
STOT (Specific Target Organ Toxicity) – Repeated Exposure	Not classified
Skin Corrosion / Irritation	Harmful if absorbed through skin. Causes skin irritation.
Serious Eye Damage / Irritation	Eyes - Rabbit - Risk of serious damage to eyes. - OECD Test Guideline 405
Respiratory or Skin Sensitization	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Carcinogenicity	Not listed.
Reproductive Toxicity	
- Sexual Function and Fertility	Not classified
- Development of Offspring	Not classified
- Effects on or via Lactation	Not classified
Germ Cell Mutagenicity	Not classified
Interactive Effects	None known
Other Information	None known



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Section 12. Ecological Information	
Ecotoxicity	LC50: 32 mg/L (Lepomis macrochirus) 96 hr EC50: 40 mg/L (Desmodemus subspicatus) 96 hr
Persistence and Degradability	No data
Bioacumulative Potential	Not expected to bioaccumulate.
Biodegradability	Readily biodegradable.
Mobility in Soil	No data.
Other Adverse Effects	None known

Section 13. Disposal Considerations	
Disposal Consideration	Dispose of contents / container in accordance with local regulations.

Section 14. Transport Information	
UN Number	Not applicable
UN Proper Shipping Name	Not applicable
Transport Hazard Class(es)	Not applicable
Packaging Group	Not applicable
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	Not applicable

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None

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Section 16. Other Information	
NFPA Rating	Health-2/ Flammability-0/Reactivity-1/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-1/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	28 September, 2012
Date of Latest Revision:	20 February, 2016
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