



MATERIAL SAFETY DATA SHEET

#1700, 407 2ND STREET S.W., CALGARY, ALBERTA T2P 2Y3
TELEPHONE: (403) 269-2242 FAX: (403) 269-2251
1-613-996-6666 – CANUTEC – Transportation Emergency
1-888-243-9771 – ChExSS – Chemical Exposure

SODIUM SULPHITE CATALYZED

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: SODIUM SULPHITE CATALYZED
Chemical Family: Sodium Sulfite; inorganic salt
WHMIS Classification: D-2-A
Workplace Hazard: Very toxic; contains a carcinogen

Product Use: Oxygen scavenger
TDG Classification: Not regulated
Packaging Group: Not applicable
PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Oral/Rat)	LC ₅₀ (Inhal/Rat)
Sodium Sulfite	60-100	7757-83-7	820 mg/kg (mouse)	>5.5 mg/L/4 hr (dust)
Sodium metabisulfite	1-5	7681-57-4	115 mg/kg	Not available
Cobalt sulfate	0.5-1.5	13455-34-0	Not available	Not available

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: May cause mild irritation to the eyes. May cause mild irritation to skin from prolonged contact. Solutions will irritate. May cause gastrointestinal irritation, nausea, vomiting and diarrhea if ingested. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression, and even death. If inhaled, May cause mild irritation of the respiratory tract. Sulphite sensitive individuals may experience a severe allergic reaction. Contact with heat, water, acids or oxidizers releases sulphur dioxide gas which may be harmful or deadly when inhaled.

Effects of chronic exposure: Dust or mist may cause irritation from prolonged contact.

Exposure limits: Cobalt sulfate – ACGIH-TLV 0.02 mg/m³

Irritancy of product: Irritant

Sensitization to product: No information available

Carcinogenicity: Cobalt and its compounds have been shown to cause cancer in laboratory animals (IARC Group 2B).

Reproductive toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Name of toxicological synergistic products: No information available



SODIUM SULPHITE CATALYZED

SECTION IV: FIRST AID MEASURES

Skin contact: Immediately flush with water for 15 minutes. Remove contaminated clothing and footwear. Obtain medical attention. Launder clothing before reuse.

Eye contact: Immediately flush with gently flowing warm water for at least 15 minutes, or until irritation ceases. Remove contact lenses (if present) and hold eyelids open to ensure thorough flushing. Obtain medical attention.

Inhalation: Move to fresh air. Apply oxygen or artificial respiration if required. Obtain medical attention.

Ingestion: Do not induce vomiting. If victim is fully conscious, give a little water or milk. Obtain immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: White crystals; slight sulfur dioxide-like odour

Odour threshold: Not available

Specific gravity: 2.6

Vapor pressure (mmHG): Not available

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not available

Freeze/Melting point (°C): Not available

pH: 8-8.4 (1% Solution)

Co-efficient of water/oil distribution: 17% by wt @10°C



SODIUM SULPHITE CATALYZED

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Decomposes at temperatures $> 150^{\circ}\text{C}$ to produce toxic/corrosive sulfur oxides.

Means of extinguishing: Use dry chemicals, CO₂ or foam. Do not use water.

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Decomposes to produce toxic/corrosive sulfur oxides

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong oxidizers cause vigorous exothermic reactions. Contact with heat, water, acids or oxidizers releases toxic/corrosive sulphur dioxide gas which may be harmful or deadly when inhaled.

Conditions of reactivity: Contact with incompatible materials.

Hazardous decomposition products: Sulfur dioxide gas-toxic and corrosive. Sodium sulphide residue-flammable, dangerous fire risk, strong irritant to skin and tissue, incompatible with acids.



SODIUM SULPHITE CATALYZED

SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: NIOSH approved dust mask or respirator. Impervious gloves recommended. Suggest chemical safety goggles (do not wear contact lenses). Suggest rubber apron. Long-sleeved shirt & trousers. Ensure eye wash station and emergency shower are available.

Specific engineering controls: Use local exhaust ventilation, process enclosure or other engineering controls to control dust.

Procedures for leak/spills: Wear suitable personal protective equipment. Evacuate area of nonessential personnel. Sweep up spilled material. Collect uncontaminated material for repackaging. Collect contaminated material for disposal. Wash spill area thoroughly with water after cleanup.

Waste disposal: Dispose in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be disposed of, or recycled, according to local regulations.

Handling procedures and equipment: Avoid contact with eyes, skin, and clothing. Avoid breathing dust or mist. When dissolving, add to water cautiously while stirring. Use adequate ventilation if dust cloud is created or if there is a release of sulfur dioxide gas. Use good personal hygiene and housekeeping practices. Wash thoroughly after handling.

Storage requirements: Store in a cool, dry area away from acids or oxidizers. Keep container closed. Protect from physical damage. Handle empty containers as if full.

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: September 15, 2010

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.