



SODIUM SULPHITE CATALYZED

PRODUCT INFORMATION

CHEMICAL NAME: Sodium Sulphite, Catalyzed
 CHEMICAL FAMILY: Sulphite MOLECULAR FORMULA: Na₂SO₃
 SHIPPING NAME: Sodium sulphite, catalyzed
 PIN - (UN/NA): Not applicable. WHMIS: D.2A
 PRODUCT USE: Oxygen removal from water used in boilers, oil well flooding, oil well drilling muds and other water uses where it is important to remove oxygen to reduce corrosion.
 MANUFACTURER: General Chemical Corp. 90 East Halsey Road Parsippany, N.J. 07054
 Emergency telephone number: 519-736-2111
 SUPPLIER: Panther Industries Inc. Box 628 Davidson, Sask.S0G 1A0
 EMERGENCY TELEPHONE NUMBER: 306-567-2814

HAZARDOUS INGREDIENTS

INGREDIENTS:	WEIGHT %	C.A.S. REGISTRY NUMBER:
Sodium sulphite	94.5-96.5	7757-83-7
Cobalt sulphate	0.04	10124-43-3
Sodium sulphate	0-4	7757-82-6

PHYSICAL DATA

PHYSICAL STATE: Solid
 ODOUR AND APPEARANCE: White granular crystals or powder. Odourless.
 ODOUR THRESHOLD: Not available
 VAPOUR PRESSURE: Not applicable VAPOUR DENSITY: Not applicable
 EVAPORATION RATE: Not applicable
 pH: 1% solution; pH = 9.8 approximately
 BOILING POINT: Decomposes 900o C MELTING POINT: Not available
 SOLUBILITY IN WATER: 17% at 10o C 28% at 33.4o C
 MOLECULAR WEIGHT: 126.04 SPECIFIC GRAVITY: (water= 1) 2.63
 % VOLATILE BY VOLUME: Not applicable BULK DENSITY: 2.63
 COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

FIRE AND EXPLOSION HAZARD

CONDITIONS OF FLAMMABILITY: Not flammable
 MEANS OF EXTINGUISHING: Use water spray to keep containers cool and to knock down fumes.
 FLASH POINT: Not applicable
 UPPER FLAMMABLE LIMIT: Not applicable
 LOWER FLAMMABLE LIMIT: Not applicable
 AUTO IGNITION TEMPERATURE: Not applicable
 HAZARDOUS COMBUSTION PRODUCTS: Strong oxidizers cause vigorous exothermic reactions.
 SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved self-contained breathing apparatus when fighting fires. Use water spray to keep containers cool and to knock down fumes.
 EXPLOSION HAZARDS: Not applicable

REACTIVITY DATA

STABILITY: Very stable HAZARDOUS POLYMERIZATION: Will not occur
 INCOMPATIBILITY:



SODIUM SULPHITE CATALYZED

Strong oxidizers cause vigorous exothermic reactions. Acids release sulphur dioxide gas.

HAZARDOUS REACTIONS/DECOMPOSITIONS: Sulphur dioxide gas- toxic and corrosive. Sodium sulphide residue-flammable, dangerous fire risk, strong irritant to skin and tissue, incompatible with acids.

CONDITIONS TO AVOID: Oxidizers and acids.

HEALTH HAZARD DATA

INHALATION: Inhalation of dust or mist may irritate respiratory tract. Contact with acids liberates irritating and potentially deadly sulphur dioxide gas.

SKIN CONTACT: Dust or mist may cause skin irritation from prolonged contact. Solutions will irritate. See pH.

EYE CONTACT: Dust or mist may irritate or burn eyes. Solutions will irritate or burn. See pH.

INGESTION: Ingestion may irritate gastrointestinal tract. May cause severe allergic reactions in some asthmatics and sulphite sensitive individuals. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression, and even death.

ACUTE TOXICITY: Estimated to be moderately toxic.

CHRONIC TOXICITY: Sodium sulphite has been demonstrated to have mutagenic effects in humans and mammals.

EXPOSURE LIMITS: None established for sodium sulphite

For SO₂ TWAEV = 2 ppm

For SO₂ STEV = 5 ppm

IRRITANCY: moderate

MUTAGENICITY: Sodium sulphite has been demonstrated to be mutagenic in microbial systems but not in insects. Judged not to be mutagenic to multicell organisms.

CARCINOGENICITY: Not available **REPRODUCTIVE TOXICITY:** Not available

SENSITIZATION TO PRODUCT: Not available

TOXICOLOGICALLY SYNERGISTIC MATERIALS: Not available

TERATOGENICITY DATA: Not available

ANIMAL TOXICITY DATA:

LD₅₀ (oral, mouse): 820 mg/kg

2600 ppm/24, 48 & 96 hr./ mosquito fish/ TLm/ fresh water.

FIRST AID MEASURES

INHALATION:

Remove to fresh air. If symptoms persist, get medical attention.

SKIN CONTACT: Promptly wash with plenty of soap and water.

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Get medical attention.

INGESTION: If conscious, immediately give 2 to 4 glasses of water or milk, and induce vomiting by touching finger to back of throat. Get immediate medical attention.

PREVENTATIVE MEASURES

RESPIRATORY PROTECTION: If dusty or misty conditions prevail, use dust or mist respirator approved by NIOSH. If sulphur dioxide should be released (see Reactivity Data Section), use NIOSH approved self contained breathing apparatus.

SKIN PROTECTION: Wear full work clothing, including long-sleeved shirt and trousers for routine product handling. Cotton gloves are usually adequate for dry product. For solutions, wear impervious gloves and apron. If contact is repeated or prolonged, wear full impervious clothing.

EYE/FACE PROTECTION: If exposed to dust or mist or solution, wear hard hat (or other head covering) and chemical safety goggles. Do not wear contact lenses.



SODIUM SULPHITE CATALYZED

SPECIAL HANDLING PROCEDURES:

Avoid contact with eyes, skin, clothing. Avoid breathing dust or mist. Use adequate ventilation. When dissolving, add water cautiously while stirring.

STORAGE REQUIREMENTS:

Store in a cool, dry area, away from acids or oxidizers, Keep container closed. Protect from physical damage.

ENGINEERING CONTROLS:

Local exhaust if dusty or misty condition prevails or if there release of sulphur dioxide gas. Keep incompatible materials out of hoods, ducts, etc..

Provide eyewash facility near work place.

SPECIAL SHIPPING REQUIREMENTS: Not applicable

OTHER PRECAUTIONS: None

ENVIRONMENTAL PROTECTION DATA

STEPS IN THE EVENT OF A LEAK OR SPILL:

Promptly shovel up dry chemical into an empty container and cover. Store as above. Cautiously spray residue with water. Neutralize and dispose as noted in waste disposal section.

ENVIRONMENTAL EFFECTS:

Aquatic Toxicity: 2600 ppm/24, 48 & 96 hr./ mosquito fish/ TLm/ fresh water.

DEACTIVATING CHEMICALS: Not applicable

DEGRADABILITY: Biological Oxygen Demand (BOD): 0.12 lb/lb

WASTE DISPOSAL METHODS:

Dissolve in water, using caution as solution can get hot. Neutralize with acid. Good ventilation is required due to release of SO₂ gas. Oxidation to sodium sulphate, may be required, by adding a slight excess of diluted hydrogen peroxide carefully and stirring. Dispose of neutralized waste consistent with the requirements of local and/ or provincial disposal authorities.

PREPARATION INFORMATION

MSDS PREPARED BY: TECHNICAL DEPARTMENT

Panther Industries Inc.

Ph.(306) 567-2814

DATE PREPARED/REVISED: March 21 2007

DATE PRINTED: March 21 2007

REFERENCES:

Manufacturers MSDS.