COMPANY INFORMATION:

**Corporate Office**
CHEMTRADE LOGISTICS
155 Gordon Baker Road
Suite 300
Toronto, Ontario M2H 3N5
**Prepared by:** Chemtrade Logistics Inc.
**Date Prepared:** March 27, 2010
**For MSDS Info:** (416) 496-5856
www.chemtradelogistics.com

**In USA**
CHEMTRADE PERFORMANCE CHEMICALS
814 Tyvola Road, Suite 126
Charlotte, NC 28217
**Main Office:** (704) 369-2480
**Customer Service:** (877) 205-2903

**In Canada**
3406 Gene-H.-Kruger Boulevard
Trois-Rivières (Québec) G9A 4M3
**Main Office:** (819) 373-6881
**Customer Service:** (888) 840-4720

HAZARD RATINGS:

<table>
<thead>
<tr>
<th>WHMIS:</th>
<th>CONTROLL ED</th>
<th>NFPA</th>
<th>RATING</th>
<th>HMIS</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS</td>
<td>B6</td>
<td>HEALTH</td>
<td>2</td>
<td>HEALTH</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>D-2B</td>
<td>FLAMMABILITY</td>
<td>1</td>
<td>FLAMMABILITY</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>REACTIVITY</td>
<td>2</td>
<td>PHYSICAL HAZARD</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SPECIFIC HAZARD</td>
<td>W</td>
<td>PERSONAL PROTECTION</td>
<td>J</td>
</tr>
</tbody>
</table>

PRODUCT INFORMATION:

**PRODUCT NAME:** SODIUM HYDROSULFITE POWDERS & BLENDS
**CAS NUMBER:** 7775-14-6 (for sodium hydrosulfite) (See SECTION 2)
**FORMULA:** Na₂S₂O₄
**PRIMARY PRODUCT USE:** Reducing agent
**SYNONYMS:** Sodium Dithionite; Hydro; Sodium Hydrosulfite Powder; Hydro Powder; Sodium Hydrosulfite Powders & Blends; Sodium Sulfoxylate; Dithionous Acid; and Disodium Salt

**CHEMICAL FAMILY:** Sulfite
**TRADE NAMES:** V-BRITE®, VIRWITE®, VIRTEX®, & K-BRITE®

This MSDS applies to Chemtrade’s V-BRITE®, VIRWITE®, VIRTEX® & K-BRITE® products using a 1 to 4 digit alphanumeric code (A through ZZZZ) or (1–9999) in any combination (e.g. V-BRITE B, VIRWITE CD, VIRTEX 123, or K-BRITE AZ22).
SECTION 02 – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>No.</th>
<th>COMPONENT</th>
<th>CAS NO.</th>
<th>WT. %</th>
<th>EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Sodium Hydrosulfite</td>
<td>7775-14-6</td>
<td>60 - 95</td>
<td>5 mg/m³ TWA (internal)</td>
</tr>
<tr>
<td>2.</td>
<td>Sodium salt</td>
<td>XXX-XX-X</td>
<td>proprietary</td>
<td>15 mg/m³ TWA OSHA (as total dust)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 mg/m³ TWA OSHA (as respirable dust)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 mg/m³ TWA ACGIH (as inhalable dust)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 mg/m³ TWA ACGIH (as respirable dust)</td>
</tr>
<tr>
<td>3.</td>
<td>SODIUM SALT</td>
<td>XXX-XX-X</td>
<td>proprietary</td>
<td>5 mg/m³ TWA (ACGIH)</td>
</tr>
<tr>
<td>4.</td>
<td>CARBONATE SALT</td>
<td>XXX-XX-X</td>
<td>proprietary</td>
<td>Same as component 2.</td>
</tr>
<tr>
<td>5.</td>
<td>SODIUM SALT, MINERAL ACID DERIVATIVE</td>
<td>XXX-XX-X</td>
<td>proprietary</td>
<td>Same as component 2.</td>
</tr>
<tr>
<td>6.</td>
<td>SODIUM SALT, CARBOXYLIC ACID DERIVATIVE</td>
<td>XXX-XX-X</td>
<td>proprietary</td>
<td>Same as component 2</td>
</tr>
</tbody>
</table>

* - No established exposure limits. Limits shown are for particulates not otherwise specified. Material is water soluble.

SECTION 03 - HAZARDS IDENTIFICATION

(Refer to SECTION 11 for additional information)

**EXPECTED ROUTE OF ENTRY**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN CONTACT:</td>
<td>X</td>
</tr>
<tr>
<td>SKIN ABSORPTION:</td>
<td></td>
</tr>
<tr>
<td>EYE CONTACT:</td>
<td>X</td>
</tr>
<tr>
<td>INHALATION:</td>
<td>X</td>
</tr>
<tr>
<td>INGESTION:</td>
<td>X</td>
</tr>
</tbody>
</table>

**EFFECTS OF EXPOSURE:**

**ACUTE**

May cause moderate to severe eye irritation.

May cause slight to moderate skin irritation.

Inhalation of dusts can irritate or damage the nose, throat, and lungs. Symptoms may include coughing, wheezing, breathing difficulty, and pulmonary edema (fluid in the lungs).

May cause severe respiratory distress in asthmatics. Asthmatics or persons with other respiratory disorders should be excluded from exposure.

Ingestion may cause serious damage or burns to mouth, throat, esophagus, stomach, and other tissues. Nausea, vomiting, abdominal cramps and diarrhea may occur.

Sulfur Dioxide generated during decomposition may cause pulmonary irritation, bronchospasms or respiratory failure due to pulmonary edema (fluid in the lungs).
**CHRONIC**
May cause sensitization. Persons allergic to sulfites particularly susceptible.

Repeated, prolonged contact may result in dry chapped skin. A skin allergy resulting in itching and skin rash may develop.

Safe handling on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

**KNOWN EFFECTS ON OTHER ILLNESSES:**
Persons with asthma.

* **LISTED CARCINOGEN:**
This product is **NOT** known or reported to be Carcinogenic by any reference source including IARC, NTP, OSHA, or EPA.

---

### SECTION 04 - FIRST AID MEASURES

**FIRST AID FOR EYES:**
Flush IMMEDIATELY under running water for a minimum of 20 minutes. Hold eyelids open during flushing. Take care not to rinse contaminated material into unaffected eye. If redness or irritation persists, repeat flushing. Seek medical attention.

**FIRST AID FOR SKIN:**
Wash skin thoroughly with soap and water for 20 minutes. If skin irritation or blistering occurs, seek medical attention.

**FIRST AID FOR INHALATION:**
Remove subject to fresh air. Seek medical aid if lung irritation persists or if breathing becomes difficult.

**FIRST AID FOR INGESTION:**
If ingested, immediately seek medical attention and bring copy of the MSDS. **DO NOT INDUCE VOMITING.** If vomiting occurs, have victim lean forward with head down. **NEVER** give anything by mouth if victim is losing consciousness, unconscious, or convulsing.

**NOTE TO PHYSICIAN:**
Treat in accordance with the nature of acute exposure and consistent with Emergency and First-aid procedures. This material and its decomposition products are respiratory and mucous membrane irritants. Persons with a demonstrated acute response (wheezing) or chronic response (asthma) to such irritants must be excluded from exposure.

---

### SECTION 05 - FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:**

<table>
<thead>
<tr>
<th>WATER:</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALCOHOL FOAM:</td>
<td></td>
</tr>
<tr>
<td>CARBON DIOXIDE (CO₂):</td>
<td></td>
</tr>
<tr>
<td>DRY CHEMICAL:</td>
<td></td>
</tr>
<tr>
<td>WATER/FOG SPRAY:</td>
<td></td>
</tr>
<tr>
<td>NO EXTINGUISHING MEDIA:</td>
<td></td>
</tr>
</tbody>
</table>

**FLASH POINT (°F):**
Not applicable – product is solid material
**FLAMMABLE LIMITS:**
- Lower Explosive Limit (LEL): Not determined
- Upper Explosive Limit (UEL): Not determined

**AUTOIGNITION TEMPERATURE (°F):** 482 (250 °C) - for sodium hydrosulfite powder

**DECOMPOSITION TEMPERATURE (°F):** 158 - 304 (70 - 151 °C) - for sodium hydrosulfite powder

**HAZARDOUS COMBUSTION PRODUCTS:**
Sulfur Dioxide is major decomposition product. Approximately 0.15 lbs of Sulfur Dioxide is formed for each pound of Sodium Hydrosulfite that decomposes.

Thermal decomposition products may also include hydrogen sulfide, sodium oxide, oxides of carbon and potentially Sulfur.

**SPECIAL FIRE FIGHTING PROCEDURES:**
Use NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. Exercise CAUTION when fighting any chemical fire.

If decomposition is suspected inside sealed containers as indicated by container being hot to the touch or swelling of the container, vent the container by the safest means possible. Move vented container to a safe open area.

Flood material with large quantities of water and contain all runoff. Sand or dry chemical WILL NOT stop decomposition reactions. If necessary, remove the material from the container.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**
Contact with water or humidity may cause chemical reaction. Heat generated is sufficient to ignite combustible materials.

Material may reignite after fire is extinguished. Apply sufficient water to COMPLETELY dissolve the material.

Closed containers may rupture violently when heated.

If Fire Code requires sprinklered storage, protect containers by covering with fire resistant plastic or other material. Promptly remove and inspect any containers that become wet or have contact with water.

Under extreme fire conditions in confined areas, large quantities of decomposing Sodium Hydrosulfite may produce elemental Sulfur. Sulfur dust at high concentrations may create potential for explosion. If presence of sulfur dust is suspected, the recommended response is to gently apply a fog stream of water to avoid creation of a dust cloud.
SECTION 06 - ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:**
Isolate spill area to minimize contaminated area.

Wear proper personal protective equipment such as chemical resistant gloves, safety glasses, protective clothing and respiratory protection.

Recover dry material with scoops or shovels and place in suitable containers.

Keep materials out of storm drains, ditches, and surface waters. **DO NOT** allow material into Municipal waste water treatment systems (unless authorized by regulating authority).

If material shows signs of decomposition as indicated by being warm to the touch or having strong odor, dissolve material in sufficient amount of water as to completely dissolve any solid material.

Discarded materials may be classified as Hazardous waste due to reactivity with water or moisture.

Decontaminate tools and equipment by scrubbing with soap and water. Remove any cleaning wastes and contaminated soil with recovered material.

SECTION 07 - HANDLING AND STORAGE

**HANDLING PROCEDURES:**
Keep containers tightly closed when not in use.

Avoid contact with eyes and skin when handling product.

Avoid inhalation of dust.

Avoid sources of heat or flame. Closed containers may rupture violently when heated.

Remove damaged or punctured containers from storage; secure any leaks using duct tape or other suitable means. Use contents IMMEDIATELY. Observe container for signs of decomposition.

If container feels warm to the touch or begins to smoke, remove container to open area. Flood the container with water and contain any runoff. If necessary remove the material from the container prior to flooding.

**STORAGE INFORMATION:**
Keep material dry and store below temperature of 122 °F (50 °C).

Avoid contact with air.

Store material away from oxidizers, acids and flammable materials.

If Fire Code requires sprinklered storage, protect containers by covering with fire resistant plastic or other material. Promptly remove and inspect any containers that become wet or have contact with water.

Store in area with adequate ventilation.
SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:
Use NIOSH approved respirator with acid gas cartridge and dust/mist pre-filter for concentrations up to 10 times the recommended exposure limit.

For high concentrations, as well as Fire-fighting and other emergencies, use NIOSH approved positive pressure self-contained breathing apparatus.

SKIN PROTECTION:
PROTECTIVE GLOVES:
Butyl rubber, PVC (polyvinyl chloride) or Neoprene.

EYE PROTECTION:
Safety glasses with side shields or chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT:
Wear a protective apron or other suitable clothing to prevent skin contact.

ENGINEERING CONTROLS:
Local ventilation recommended – mechanical ventilation may be used.

EXPOSURE LIMITS:
Refer to Section 2 – Composition/Information on Ingredients

Local ventilation recommended – mechanical ventilation may be used.

* Sulfur dioxide (during decomposition or fires)
OSHA - 5 ppm (8- hr TWA)
ACGIH 0.25 ppm (15 minute STEL)

IDLH (IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONCENTRATION):
Not determined for Sodium Hydrosulfite.

IDLH for Sulfur dioxide formed during decomposition is 100 ppm.

SECTION 09 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>CHEMICAL FORMULA:</th>
<th>Na₂S₂O₄ (for sodium hydrosulfite)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOLECULAR WEIGHT:</td>
<td>174.1 (for sodium hydrosulfite)</td>
</tr>
<tr>
<td>PHYSICAL STATE:</td>
<td>Solid</td>
</tr>
<tr>
<td>APPEARANCE AND ODOR:</td>
<td>White free flowing powder. Slight sulfur like odor.</td>
</tr>
<tr>
<td>ODOR THRESHOLD:</td>
<td>No data available</td>
</tr>
<tr>
<td>pH:</td>
<td>6 – 10 [1% by weight solution at 68 °F (20°C)]</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER (% IN WATER):</td>
<td>18 % @ 70 °F (21 °C)</td>
</tr>
<tr>
<td>BULK DENSITY (LB/FT³):</td>
<td>55 – 65</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR=1):</td>
<td>Not determined</td>
</tr>
</tbody>
</table>
BOILING POINT (°F): Not determined
MELTING POINT (°F): 572 (300 °C) Decomposes before reaching melting point
VAPOR PRESSURE (MM HG): Not determined
EVAPORATION RATE: Not applicable
PERCENT VOLATILE BY VOLUME: Not applicable
OCTANOL/WATER PARTITION COEFFICIENT: Log $P_{ow} < -2.75$ to -4.7 (estimated) – for sodium hydrosulfite

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID:
Avoid sources of heat above 122 °F (50 °C).

Prevent contact with water or moisture.

In contact with air, mixing sodium hydrosulfite solutions with polysulfide or sulfide containing products may liberate potentially lethal Hydrogen Sulfide gas.

INCOMPATIBILITY:
Avoid strong acids.

Avoid contact with oxidizing agents such as peroxides, potassium chlorate and potassium permanganate.

An explosion occurred after mixing sodium hydrosulfite powder, aluminum powder, potassium carbonate and benzaldehyde.


Note: Product is not expected to cause fire or explosion under routine use.

SECTION 11 - TOXICOLOGICAL INFORMATION

Slightly toxic orally. May cause gastrointestinal disturbances.

Practically non-toxic by skin absorption.

This product is NOT known or reported to be Carcinogenic by any reference source including IARC, NTP, OSHA, or EPA.

This product is NOT known or reported to be mutagenic. Literature indicates Ames salmonella typhimurium and E. Coli test results were negative.

REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) NUMBER:
JP2100000 (for sodium hydrosulfite).
## TOXICITY

<table>
<thead>
<tr>
<th>TOXICITY TYPE</th>
<th>DESCRIPTION</th>
<th>RESULTS</th>
<th>TESTED ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>* LD₅₀ (ORAL):</td>
<td>Lethal Dose (50%)</td>
<td>2500 mg/kg of body weight</td>
<td>Rat</td>
</tr>
<tr>
<td>* LD₅₀ (ORAL):</td>
<td>Lethal Dose (50%)</td>
<td>1500 mg/kg of body weight</td>
<td>Mouse</td>
</tr>
<tr>
<td>SKIN EFFECTS:</td>
<td>Skin Irritation</td>
<td>Slight to moderate</td>
<td>Rabbit</td>
</tr>
<tr>
<td>EYE EFFECTS:</td>
<td>Eye Irritation</td>
<td>Mild to moderate</td>
<td>Rabbit</td>
</tr>
</tbody>
</table>

## SECTION 12 - ECOLOGICAL INFORMATION

### ENVIRONMENTAL TOXICITY:

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>TEST TYPE</th>
<th>ENDPOINT</th>
<th>DURATION (hours)</th>
<th>DESCRIPTION</th>
<th>RESULT (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACUTE TOXICITY</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### LEUCISCUS IDUS
(*fresh water fish)*

- Field observation
  - Not Specified
  - 48
  - NOEC
  - 10 – 100
- Not specified
  - Lethal Concentration (50%)
  - LC₅₀
  - 10 - 100
- Static
  - Not Specified
  - Lethal Concentration (50%)
  - LC₀
  - 46
  - LC₅₀
  - 46-68

#### DAPHNIA MAGNA STRAUS
(*other aquatic arthropod)*

- Directive 84/449/EEC
  - Not Specified
  - 24
  - EC₀
  - 62.5
  - EC₅₀
  - 120
  - EC₁₀₀
  - 250
- Not Specified
  - 48
  - EC₀
  - 62.5
  - EC₅₀
  - 98
  - EC₁₀₀
  - 250

#### SCENEDESMUS SUBSPICATUS (*algae)*

- Other - algae test in contact
  - Not Specified
  - 72
  - EC₂₀
  - 86
  - EC₅₀
  - 120
  - EC₉₀
  - 270
- Not Specified
  - 96
  - EC₂₀
  - 57
  - EC₅₀
  - 87
  - EC₉₀
  - 190

#### PSEUDOMONAS PUTIDA
(*bacteria)*

- Other
  - Not Specified
  - 17
  - EC₁₀
  - 62
  - EC₅₀
  - 107
  - EC₉₀
  - 220

#### OTHER BACTERIA
(*bacteria)*

- Other – DEV-L3
  - Not specified
  - Not Specified
  - EC₁₀
  - > 20

#### OTHER BACTERIA
(*Spirulina labyrinthiformis)*

- Static
  - Photosynthesis effect
  - 2
  - EC
  - 0.32
CHRONIC TOXICITY

*DAPHNIA MAGNA* (crustacea)

Other Mortality 21 days LC₀ > 10

Reproduction Rate 21 days NOEC > 10

NOTE: Results reported above are based on research of studies conducted on sodium hydrosulfite. Actual products have not been tested.

CHEMICAL OXYGEN DEMAND (COD): > 210,000 mg/kg substance (for sodium hydrosulfite powder)

BIOCHEMICAL OXYGEN DEMAND (BOD₅): Not determined

BIOLOGICAL ELIMINATION: Not determined

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INFORMATION:
If this product becomes a waste, it may become a characteristic Hazardous waste due to ignitibility (D001) or reactivity (D003). Such waste is subject to the Land Disposal restrictions outlined in 40 CFR 268.

Dispose of material in accordance with all State, Local, Provincial, and Federal regulations at approved waste management site.

SECTION 14 - TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: Regulated
SHIPPING NAME: Sodium Hydrosulfite (or Sodium Dithionite)
UN/NA NUMBER: UN 1384
HAZARD CLASS OR DIVISION: 4.2
PACKING GROUP: II
LABEL CODES: 4.2 (Spontaneously Combustible)
DOT EMERGENCY RESPONSE GUIDE NUMBER: 135

CANADIAN TRANSPORT REGULATION: Regulated
SHIPPING NAME: Sodium Hydrosulfite (or Sodium Dithionite)
UN/NA NUMBER: UN 1384
HAZARD CLASS OR DIVISION: 4.2
PACKING GROUP: II
LABEL CODES: 4.2 (Spontaneously Combustible)
DOT EMERGENCY RESPONSE GUIDE NUMBER: 135

INTERNATIONAL AIR TRANSPORTATION (IATA) REGULATIONS: Regulated
SHIPPING NAME: Sodium Dithionite
UN/NA NUMBER: UN 1384
HAZARD CLASS OR DIVISION: 4.2
PACKING GROUP: II
LABEL CODES: 4.2 (Spontaneously Combustible)
SECTION 15 - REGULATORY INFORMATION

OSHA:
Meets criteria for hazardous material as defined by the Occupational Safety and Health Administration (OSHA) in 29 CFR 1910.1200.

TSCA:
We certify that all components of this product are registered under the regulations of the Toxic Substance Control Act (TSCA).

SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):
Sodium hydrosulfite

<table>
<thead>
<tr>
<th>SARA (SECTION 311/312):</th>
<th>SARA (SECTION 302):</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACTIVE HAZARD:</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>PRESSURE HAZARD:</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>FIRE HAZARD:</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>IMMEDIATE/ACUTE:</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>DELAYED/CHRONIC:</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>EXTREMELY HAZARDOUS SUBSTANCE:</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>CERCLA HAZARDOUS SUBSTANCE:</td>
<td>N</td>
<td>See below for other components</td>
</tr>
<tr>
<td>RELEASE NOTIFICATION (for sulfur dioxide during decomposition):</td>
<td>Y</td>
<td>500 lbs (SO₂)</td>
</tr>
</tbody>
</table>

CERCLA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT:
4. Sodium salt, mineral acid derivative

RCRA (RESOURCE CONSERVATION & RECOVERY ACT) HAZARDOUS WASTE:
Yes, if product becomes a waste due to ignitibility and reactivity.

RCRA #:
D001, D003

SARA (SECTION 313 - TOXIC CHEMICAL):
This product does NOT contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986.

CLEAN WATER ACT - PRIORITY POLLUTANTS:
This product contains no known Priority Pollutants at concentrations greater than 0.1%.

CLEAN AIR ACT - VOLATILE ORGANIC COMPOUNDS:
None

LOSS ON DRYING (%):
None expected

(FOR COMPONENTS LISTED IN SECTION 2):
RQ = 5000 lbs.
FDA: This product is **NOT** registered with the Food and Drug Administration (FDA).

GENERALLY REGARDED AS SAFE (GRAS): Sodium Hydrosulfite is Generally Regarded As Safe for use in Paper and Paperboard products used in Food Packaging (21 CFR 176.170(a) & 21 CFR 182.90). Sodium Hydrosulfite is Generally Regarded As Safe for use with Textiles and Textile Fibers for producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding food [21 CFR 177.2800(d)(1)].

USDA: This product is **NOT** registered with the U. S. Department of Agriculture (USDA).

CANADIAN REGULATORY INFORMATION: CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): This product conforms to the CEPA regulations.

LISTED ON DOMESTIC SUBSTANCE LIST (DSL): ALL components are listed.

LISTED AS PRIORITY SUBSTANCE: Components may contain respirable particulate matter ≤ 10 microns.

LISTED AS TOXIC SUBSTANCE: Components are **NOT** listed.

EXPORT CONTROL LIST: Components are **NOT** listed.

NATIONAL POLLUTANT RELEASE INVENTORY (NPRI): Product **NOT** subject to NPRI reporting.

LISTED ON NON-DOMESTIC SUBSTANCES LIST (NDSL): Components are **NOT** listed.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WORKPLACE HAZARDOUS INFORMATION SYSTEM (WHMIS): CONTROLLED

CLASS: DIVISION:
B 6  Reactive flammable material
D 2B  Toxic Material causing other effects
F  Dangerously reactive material

EUROPEAN/INTERNATIONAL REGULATIONS:
EUROPEAN INVENTORY OF EXISTING COMMERCIAL SUBSTANCES (EINECS) NUMBER: 231-890-0 (for sodium hydrosulfite)

EUROPEAN PRIORITY LISTS: Chemical components are not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances)
HAZARD SYMBOLS: Xn (HARMFUL)

RISK PHRASES:  
R7 – May cause fire.  
R22 – Harmful if swallowed.  
R31 – Contact with acids liberates toxic gas.

SAFETY PHRASES:  
S7 – Keep container tightly closed.  
S8 – Keep container dry.  
S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 – After contact with skin, rinse immediately with plenty of water and seek medical advice if redness or irritation persists.  
S43 – In case of fire, use water and contain all runoff.

SECTION 16 - OTHER INFORMATION

OTHER PRECAUTIONS: None known

STATE REGULATORY INFORMATION:  
MASSACHUSETTS SUBSTANCES LIST: Listed

NEW JERSEY: Right to Know (RTK) Substance Number – 1697 (Sodium Dithionite)

NEW YORK LIST OF HAZARDOUS SUBSTANCES Listed  
(Air RQ – 5000 lbs.; Land/Water RQ – 100 lbs.)

CALIFORNIA PROPOSITION 65: Product is NOT Listed.

LABEL INFORMATION:

LABEL HAZARDS:  
WARNING! FLAMMABLE SOLID. MAY SPONTANEOUSLY DECOMPOSE IN PRESENCE OF HEAT OR MOISTURE.

WARNING! DURING DECOMPOSITION, TOXIC GASES ARE PRODUCED.

CAUTION! MAY CAUSE EYE AND SKIN IRRITATION.

CAUTION! INHALATION OF DUST MAY IRRITATE UPPER RESPIRATORY TRACT (NOSE, MOUTH AND THROAT).

LABEL PRECAUTIONS: KEEP PRODUCT DRY! AVOID CONTACT WITH MOISTURE.

STORE AT TEMPERATURE BELOW 122 °F (50 °C).

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. WEAR PROPER PROTECTIVE EQUIPMENT.

AVOID BREATHING DUST. USE WITH ADEQUATE VENTILATION.

KEEP CONTAINERS CLOSED WHEN NOT IN USE.
ACRONYMS/REFERENCES:
ACGIH – American Conference of Governmental Industrial Hygienists
CAS – Chemical Abstract Service
CERCLA – Comprehensive Environmental Response, Compensation and Liability Act
DOT – Department of Transportation (U.S.)
EC – Effective Concentration (where desired endpoint observed)
EEC – European Economic Community
EPA – Environmental Protection Agency
g/m³ – grams per cubic meter
HMIS - Hazardous Materials Identification System
IARC - International Agency for Research on Cancer
Lb/ft³ – pounds per cubic foot
LC – Lethal Concentration
LD – Lethal Dose
mg/m³ – milligrams per cubic meter
mg/kg – milligrams per kilogram
mg/l – milligrams per liter
mm Hg – millimeters of mercury
NIOSH – National Institute for Occupational Safety and Health
MSDS – Material Safety Data Sheet
NOEC – No Observed Effect Concentration
NTP – National Toxicology Program
OSHA – Occupational Safety and Health Administration
RCRA – Resource Conservation and Recovery Act
RQ – Reportable Quantity
SARA – Superfund Amendments and Reauthorization Act
STEL – Short term exposure limit
TWA – Time weighted average (8-hour)
UN/NA – United Nations/North America
WHMIS – Workplace Hazardous Materials Information System (Canada)
WT. % - Weight Percent
* - Indicates sections that were revised from previous versions of this document.

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