SECTION I  PRODUCT IDENTIFICATION AND COMPANY INFO

PRODUCT NAME: SODIUM HYDROSULFITE

SUPPLIER CONTACT: AZ Chemicals, INC,  
2201 Water Ridge Parkway  
Suite 570, Charlotte, N.C. 28217  
(877) 835 1423  
www.azchemicals.com

SYNONYMS: Sodium dithionite; sodium sulfoxylate; dithionous acid, disodium salt

CAS NUMBER: 7775-14-6
UN No: 1384
RTECS No: JP2100000
IMDG Page: 4262

HAZARD RATING:

<table>
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<th>LEAST</th>
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<tr>
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<td>FIRE</td>
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<td>SLIGHT</td>
</tr>
<tr>
<td></td>
<td>REACTIVITY</td>
<td>2</td>
<td>2</td>
<td>MODERATE</td>
</tr>
<tr>
<td></td>
<td>OTHER</td>
<td>3</td>
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<tr>
<td></td>
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<td>4</td>
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HAZARD RATING METHOD: NFPA

FOR CHEMICAL EMERGENCIES, SPILL, FIRE EXPOSURE OR ACCIDENT  
CONTACT INFOTRAC, 24 HOURS 1-800-535-5053

SECTION II  PRECAUTIONARY STATEMENT

WARNING:  
Flammable! May spontaneously ignite in moist air or upon contact with water. Causes severe irritation to the skin, eyes and mucous membranes. May cause an allergic skin reaction.

Keep away from heat, sparks and open flames. Store in tightly closed containers. Wear impervious gloves, goggles and protective clothing when handling this product. Avoid breathing dust. Wash thoroughly after handling.
SECTION III  INGREDIENTS

<table>
<thead>
<tr>
<th>Description</th>
<th>%</th>
<th>CAS No</th>
<th>Exposure Limit</th>
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<tr>
<td>Dithionous acid, disodium salt</td>
<td>&gt;88</td>
<td>7775-14-6</td>
<td>Not established</td>
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</table>

SECTION IV  FIRE AND EXPLOSION DATA

FLASH POINT: Not Applicable
AUTOIGNITION TEMP: 250°C
EXTINGUISHING MEDIA: Carbon dioxide, dry sand or large quantities of water

SPECIAL PROCEDURES:
Wear full protective clothing and self-contained breathing apparatus with full face-piece. Avoid use of water unless sufficient amounts are available for flooding and flushing all involved product. Decomposition/combustion products may include toxic fumes such as sulfur dioxide.
This product, upon contact with water, forms sulfurous acid.

EXPLOSION HAZARDS:
Decomposes violently at 374°F (190°C). React violently with oxidants resulting in combusting or explosion. If exposed to a little water or to moisture, may be warming, firing even exploding.

UPPER EXPLOSION LIMIT: Unavailable
LOWER EXPLOSION LIMIT: Unavailable
SENSITIVITY/SPARKS: Unknown
SENSITIVITY/STATIC ELECTRICITY: Unknown

SECTION V  PHYSICAL PROPERTIES

APPEARANCE: White, crystalline powder
ODOR THRESHOLD: Slight irritant
SPECIFIC GRAVITY: Unavailable
VAPOR PRESSURE (mm Hg): Nil
MELTING POINT:  >300°C (Decomposes)
INITIAL BOILING POINT: Decomposes
EVAPORATION RATE: Nil
(Ethyl Ether = 1)
SOLUBILITY IN WATER: Soluble
BULK DENSITY: -0.9
VOLATILE %: Nil
pH: 5-6
pH METHOD: pH test paper
SECTION VI  HEALTH INFORMATION

SKIN:  
Causes severe irritation, even burns after prolonged contact.  
May cause allergic skin reaction.

EYES: 
Causes severe irritation. May result in permanent eye damage.

SWALLOWING: 
Causes severe irritation to mucous membranes.

BREATHING: 
Inhalation of dust can cause irritation of the upper respiratory tract.

CARCINOGENICITY: 
This product is not listed in IARC Monographs, the NTP Sixth Annual Report or the current ACGIH TLVs as a carcinogen or potential carcinogen.  
It is not regulated by OSHA as a carcinogen.

SECTION VII  FIRST AID PROCEDURES

BREATHING: 
If affected, move to fresh air. If breathing has stopped, give artificial respiration and call a physician.

SKIN CONTACT: 
Thoroughly wash exposed area with lots of soap and water. If irritation persists or if open sores develop, contact a physician.  
Remove contaminated clothing and launder before re-use.

EYE CONTACT: 
Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get medical attention. Do not use chemical antidote.

SWALLOWING: 
If conscious, give two large glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION VIII  REACTIVITY INFORMATION

INCOMPATIBILITIES: 
Have strong reduction and can be oxidize if exposed to air.  
Avoid contact with acids, water and moist air. Avoid excessive heat.

DECOMPOSITION: 
Decomposition compounds include toxic fumes such as sulfur dioxide.  
Contact with water results in the formation of sulfurous acid.

HAZARDOUS POLYMERIZATION: 
Cannot occur.

STABILITY: 
Stable under normal conditions. Violent decomposition may result if product is heated to 374°F(190°F).
SECTION IX  UNINTENTIONAL RELEASE INFORMATION

SPILL AND LEAK PROCEDURE:
Eliminate all ignition sources (heat, sparks, open flames, etc.). Persons not wearing protective equipment should be excluded from the area of the spill until clean-up has been completed. Keep away from water or moisture. Shovel spilled material into containers. Thoroughly sweep up residual material, and then wash the spill site.

WASTE DISPOSAL:
This product, if disposed of, is an ignitable waste (D001) under current RCRA regulations.

SECTION X  PERSONAL PROTECTION

RESPIRATORY PROTECTION:
A NIOSH/MSHA approved respirator is recommended during operations which generate dust.

SKIN PROTECTION:
Wear protective gloves such as Neoprene.

EYE PROTECTION:
Chemical goggles in compliance with OSHA regulations are advised, however, OSHA may also permit other types of safety glasses.

OTHER PROTECTION:
Impervious clothing and boots are recommended. Provide sufficient ventilation to maintain exposure below level of over-exposure.

SECTION XI  STORAGE, HANDLING & TRANSPORTATION

STORAGE:
Keep in closed or covered containers when not in use. Store in cool dry place with adequate ventilation. Do not store near oxidants, acids or combustible materials.

HANDLING:
Exercise caution when handling contents of the container. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Whenever possible, use mechanical means to move large and or heavy objects to help prevent back injuries.

TRANSPORTATION:
Sodium dithionite, 4.2 (spontaneously combustible), UN 1384, PG II
SECTION XII ADDITIONAL INFORMATION

SARA requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372.

Components present in this product at a level which could require reporting under the statute are: None

The product information contained herein is believed to be accurate as of the data of the Material Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury property damage.

************END OF REPORT************