

OHS21660

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SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
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MDL INFORMATION SYSTEMS, INC.  
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Nashville, TN 37217-2423  
1-615-366-2000

EMERGENCY TELEPHONE NUMBER:  
1-800-424-9300 (NORTH AMERICA)  
1-703-527-3887 (INTERNATIONAL)

SUBSTANCE: SODIUM SULFITE

## TRADE NAMES/SYNONYMS:

ANHYDROUS SODIUM SULFITE; DISODIUM SULFITE; SODIUM SULPHITE; SODIUM SULFITE,  
ANHYDROUS; SULFUROUS ACID, SODIUM SALT (1:2); SULFUROUS ACID, DISODIUM SALT;  
EXSICCATED SODIUM SULFITE; NA2SO3; OHS21660; RTECS WE2150000

CHEMICAL FAMILY: inorganic, salt

CREATION DATE: Dec 19 1984

REVISION DATE: Mar 18 2002

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SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS  
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COMPONENT: SODIUM SULFITE  
CAS NUMBER: 7757-83-7  
EC NUMBER (EINECS): 231-821-4  
PERCENTAGE: 100.0

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SECTION 3 HAZARDS IDENTIFICATION  
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NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=0 REACTIVITY=0

## EMERGENCY OVERVIEW:

COLOR: white to brown

PHYSICAL FORM: crystals, powder

ODOR: odorless

MAJOR HEALTH HAZARDS: skin irritation, eye irritation, allergic reactions

## POTENTIAL HEALTH EFFECTS:

## INHALATION:

SHORT TERM EXPOSURE: irritation, difficulty breathing

LONG TERM EXPOSURE: allergic reactions

## SKIN CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: irritation, allergic reactions

## EYE CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: irritation

## INGESTION:

SHORT TERM EXPOSURE: allergic reactions, nausea, vomiting, diarrhea, stomach pain, difficulty breathing

LONG TERM EXPOSURE: allergic reactions

## CARCINOGEN STATUS:

OSHA: No

NTP: No

IARC: No

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SECTION 4 FIRST AID MEASURES  
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INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

SKIN CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

INGESTION: If a large amount is swallowed, get medical attention.

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SECTION 5 FIRE FIGHTING MEASURES  
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FIRE AND EXPLOSION HAZARDS: Negligible fire hazard.

EXTINGUISHING MEDIA: regular dry chemical, carbon dioxide, water, regular foam

Large fires: Use regular foam or flood with fine water spray.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

FLASH POINT: >200 F (>93.3 C) (SCC)

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SECTION 6 ACCIDENTAL RELEASE MEASURES

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OCCUPATIONAL RELEASE:

Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

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SECTION 7 HANDLING AND STORAGE

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STORAGE: Store and handle in accordance with all current regulations and standards. Store in a well-ventilated area. Store in a tightly closed container. Store above 12 C. Keep dry. Keep separated from incompatible substances.

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SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

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EXPOSURE LIMITS:

SODIUM SULFITE:

No occupational exposure limits established.

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

PROTECTIVE MATERIAL TYPES: neoprene

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

For Unknown Concentrations or Immediately Dangerous to Life or Health -

Any supplied-air respirator with full facepiece and operated in a

pressure-demand or other positive-pressure mode in combination with a separate escape supply.  
Any self-contained breathing apparatus with a full facepiece.

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SECTION 9            PHYSICAL AND CHEMICAL PROPERTIES

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PHYSICAL STATE: solid  
COLOR: white to brown  
PHYSICAL FORM: crystals, powder  
ODOR: odorless  
TASTE: salty taste  
MOLECULAR WEIGHT: 126.04  
MOLECULAR FORMULA:  $\text{Na}_2\text{S}_2\text{O}_3$   
BOILING POINT: >212 F (>100 C)  
MELTING POINT: decomposes at red heat  
VAPOR PRESSURE: <0.1 mmHg  
VAPOR DENSITY (air=1): <1.00  
SPECIFIC GRAVITY (water=1): 2.633 @ 15 C  
WATER SOLUBILITY: 12.5% @ 0 C  
PH: 9.0 approximate  
VOLATILITY: Not applicable  
ODOR THRESHOLD: Not available  
EVAPORATION RATE: Not applicable  
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available  
SOLVENT SOLUBILITY:  
  Soluble: glycerol  
  Slightly Soluble: alcohol  
  Insoluble: liquid chlorine, ammonia

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SECTION 10           STABILITY AND REACTIVITY

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REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition.  
Avoid contact with incompatible materials.

INCOMPATIBILITIES: acids, oxidizing materials

SODIUM SULFITE:

MINERAL ACIDS (STRONG): Reacts to form sulfur dioxide.

OXIDIZING MATERIAL: Incompatible.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxides of sulfur, sodium

POLYMERIZATION: Will not polymerize.

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SECTION 11 TOXICOLOGICAL INFORMATION  
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SODIUM SULFITE:

TOXICITY DATA:

7 mg/kg oral-human TDLo; 3560 mg/kg oral-rat LD50; 820 mg/kg oral-mouse LD50; 950 mg/kg intraperitoneal-mouse LD50; 175 mg/kg intravenous-mouse LD50; 1300 mg/kg subcutaneous-dog LDLo; 1300 mg/kg subcutaneous-cat LDLo; 400 mg/kg intravenous-cat LDLo; 2825 mg/kg oral-rabbit LDLo; 600 mg/kg subcutaneous-rabbit LDLo; 600 mg/kg subcutaneous-guinea pig LDLo; 200 mg/kg intravenous-guinea pig LDLo

LOCAL EFFECTS:

Irritant: skin, eye

ACUTE TOXICITY LEVEL:

Moderately Toxic: ingestion

TARGET ORGANS: immune system (sensitizer)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: respiratory disorders

MUTAGENIC DATA:

mutation in microorganisms - other microorganisms 600 ppm (-S9); other mutation test systems - human lymphocyte 100 umol/L; cytogenetic analysis - mouse other cell types 25 mg/L; sperm - mouse other cell types 25 mg/L; cytogenetic analysis - domestic animal other cell types 250 mg/L; cytogenetic analysis - cattle, horse other cell types 250 mg/L; sperm - domestic animal other cell types 250 mg/L; sperm - cattle, horse other cell types 250 mg/L

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

SODIUM SULFITE: May cause mucous membrane irritation. Inhalation of this material may cause adverse reactions including bronchospasms in susceptible individuals, especially asthmatics. Symptoms may include flushing, severe wheezing, swelling of the throat, and palatal and generalized itching.

CHRONIC EXPOSURE:

SODIUM SULFITE: Repeated or prolonged exposure may cause sensitization. Rats exposed to aerosol concentrations of 0.1 to 15 mg/m<sup>3</sup> for 3 days caused mild pulmonary edema.

SKIN CONTACT:

ACUTE EXPOSURE:

SODIUM SULFITE: May cause moderate irritation and contact dermatitis. May cause itching and burning. Some sulfites may cause sensitization

dermatitis in previously exposed individuals.

CHRONIC EXPOSURE:

SODIUM SULFITE: Repeated or prolonged exposure may cause contact dermatitis. Repeated exposure to sulfites may result in sensitization.

EYE CONTACT:

ACUTE EXPOSURE:

SODIUM SULFITE: May cause moderate irritation, redness, itching and burning.

CHRONIC EXPOSURE:

SODIUM SULFITE: Repeated or prolonged exposure to irritants may cause conjunctivitis.

INGESTION:

ACUTE EXPOSURE:

SODIUM SULFITE: May cause gastrointestinal irritation with abdominal pain, nausea, vomiting and diarrhea. In susceptible individuals, particularly asthmatics, sulfites may cause wheezing, shortness of breath, unconsciousness and anaphylaxis. Signs and symptoms may include generalized flushing and itching and respiratory arrest. The estimated human lethal dose is 10 grams. In animals, large doses have caused violent colic and diarrhea, circulatory disturbances, central nervous system depression and death.

CHRONIC EXPOSURE:

SODIUM SULFITE: Repeated ingestion of food containing sulfites may cause sensitization. Reproductive effects have been reported in animals.

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SECTION 12      ECOLOGICAL INFORMATION

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ECOTOXICITY DATA:

FISH TOXICITY: 660000 ug/L 96 hour(s) LC50 (Mortality) Mosquitofish  
(*Gambusia affinis*)

INVERTEBRATE TOXICITY: 1300000 ug/L 24 hour(s) LC50 (Mortality) Sea urchin  
(*Psammechinus miliaris*)

ALGAL TOXICITY: 320 ug/L 1-1.5 month(s) (Photosynthesis) Blue-green algae  
(*Spirulina labyrinthiformis*)

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SECTION 13      DISPOSAL CONSIDERATIONS

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Dispose in accordance with all applicable regulations.

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SECTION 14        TRANSPORT INFORMATION  
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U.S. DEPARTMENT OF TRANSPORTATION: No classification assigned.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: No classification assigned.

LAND TRANSPORT ADR/RID: No classification assigned.

AIR TRANSPORT IATA/ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

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SECTION 15        REGULATORY INFORMATION  
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U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):  
Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):  
Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):  
ACUTE: Yes  
CHRONIC: Yes  
FIRE: No  
REACTIVE: No  
SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:

California Proposition 65: Not regulated.

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: Not determined.

EUROPEAN REGULATIONS:

EC CLASSIFICATION (CALCULATED):

Xn Harmful  
Xi Irritant

## DANGER/HAZARD SYMBOL:

Xn Harmful

## EC RISK AND SAFETY PHRASES:

R 36 Irritating to eyes.  
R 38 Irritating to skin.  
R 42 May cause sensitization by inhalation.  
  
S 2 Keep out of reach of children.  
S 24 Avoid contact with skin.  
S 25 Avoid contact with eyes.  
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S 46 If swallowed, seek medical advice immediately and show this container or label.

## GERMAN REGULATIONS:

WATER HAZARD CLASS (WGK):

STATE OF CLASSIFICATION: VwVwS

CLASSIFICATION UNDER HAZARD TO WATER: 1

## NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

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SECTION 16 OTHER INFORMATION  
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## MSDS SUMMARY OF CHANGES

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
SECTION 3 HAZARDS IDENTIFICATION  
SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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