

Great Lakes Treatment Corporation

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MATERIAL SAFETY DATA SHEET

For Chemical Spill, Leak, Fire, Exposure or
Accident Call Day or Night (517) 566-8008.

PRODUCT IDENTIFICATION

PRODUCT NAME: 5203

DATE: November 30, 1989

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENTS	OSHA PEL	or	ACGIH TLV	% By Weight
Sodium Nitrite CAS #7632-00-0			not established	< 20.0
Tolyltriazole, Sodium Salt CAS #64665-57-2			not established	< 5.0
Sodium Hydroxide CAS #1310-73-2			2mg/m ³	< 1.0

PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT (°F): >212
VAPOR PRESSURE (mmHg): <17
VAPOR DENSITY (Air=1): 0.6
SOLUBILITY IN WATER: Complete
APPEARANCE AND ODOR: Clear, colorless to light amber liquid

SPECIFIC GRAVITY: 1.2
PH (FULL STRENGTH): 13.0
EVAPORATION RATE: Similar to water.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): na

FLAMMABLE LIMITS: na LEL: na UEL

EXTINGUISHING MEDIA: water and carbon dioxide for small and large fires.

SPECIAL FIRE FIGHTING PROCEDURES: Protect against nitrogen containing gases. Use self contained breathing apparatus and full protective equipment for small and large fires. Keep unnecessary people away; Isolate area and deny entry. Move container from fire area if you can do so without risk. Remove sources of ignition. Stay upwind.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product contains Sodium Nitrite, an oxidizing agent. Contact with some metals, including those listed under Materials To Avoid, may cause some hydrogen. May react violently with acids or organic material.

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REACTIVITY DATA

STABILITY: Stable

MATERIALS TO AVOID: Oxidizers, zinc (galvanized), organic materials, tin, chromium, brass, bronze, magnesium, aluminum, acids, ammonium compounds, reducing agents, combustibles.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen containing gases may be released. May leave caustic residue. (See Fire Hazards)

HAZARDOUS POLYMERIZATION: Will not occur.

HEALTH HAZARD DATA

INHALATION: Vapors may cause irritation. Prolonged or repeated contact may cause persistent irritation or possibly serious health problems. See Ingestion. INGESTION: May cause burns. Although small quantities of Sodium Nitrite are sometimes used in food processing, larger amounts can result in acute toxic effects and may be fatal; details: conversion of hemoglobin to methemoglobin, producing cyanosis; marked fall in blood pressure leading to collapse, coma, and possibly death. LD₅₀ for Sodium Nitrite is 85 mg/kg, oral.

SKIN: May cause severe irritation.

EYES: Corrosive. Permanent damage possible.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes. Consult a physician immediately.

SKIN CONTACT: Flush with water for 15 minutes; if irritation occurs, consult a physician. Remove contaminated clothing.

INHALATION: Remove to fresh air. Give artificial respiration if breathing has stopped. Contact a physician.

INGESTION: Drink large amounts of water. Contact a physician immediately.

PRECAUTIONS FOR SAFE HANDLING AND USE

Do not touch spilled material. Stop leak if you can do so without risk. Use appropriate safety equipment. Remove sources of ignition. Stay upwind. Keep unnecessary people away. Isolate area. Keep out of low areas. Allow some ventilation. Contain product.

SMALL SPILLS: Absorb spills with sand. Put into appropriate containers and cover.

LARGE SPILLS: Dam spills to contain liquid. Put into appropriate containers and cover.

DISPOSAL: This product is an EPA Hazardous Waste #D002 (Corrosive) due to the pH. Dispose of in accordance with all applicable local, state, and federal regulations.

HANDLING PRECAUTIONS: Store in dry, cool place. Avoid storage temperatures above 100°F. Recommended shelf life: one year. Keep away from reactive materials and sources of ignition. Do not breathe dust or vapors.

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CONTROL MEASURES

RESPIRATORY PROTECTION: Use adequate ventilation. Avoid breathing vapors. Use vapor respirator if vapors prevail. Mechanical ventilation may be desired.

SKIN PROTECTION: Rubber gloves. Protect skin from contact.

EYE PROTECTION: Chemical Worker's Goggles

D.O.T. TRANSPORTATION DATA:

PROPER SHIPPING NAME: Corrosive Liquid N.O.S.
(contains caustic)

RD: Yes

HAZARD CLASS: Corrosive Material

I.D.: UN1760

MISCELLANEOUS REGULATORY CLASSIFICATIONS

SODIUM NITRITE: CERCLA Hazardous Substances subject to Section 304 (Emergency Release Notification). Superfund RQ=100#/45.4kg.

SODIUM HYDROXIDE: CERCLA Hazardous Substances subject to Section 304 (Emergency Release Notification) Toxic Chemicals subject to Section 313 (Toxic Chemical Release Reporting). OSHA Floor List of Hazardous Chemicals subject to Section 311 (MSDS Submission) and Section 312 (Inventory Reporting): OSHA Air Contaminants. ACGIH TLY Chemicals.

ADDITIONAL INFORMATION

OTHER PRECAUTIONS:

The information herein is given in good faith, but no warranty, expressed or implied, is made. Any use of this product or method of application which is not in accordance with Great Lakes instructions is the responsibility of the user.

This Material Safety Data Sheet was prepared to comply with OSHA Hazard Communication Regulations.