



HI-VALLEY CHEMICAL

LABORATORY PRODUCTS

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SAFETY DATA SHEET

Hi Valley Chemical

Sodium Nitrite

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Sodium Nitrite
Synonyms: Nitrous acid, sodium salt
SDS Number: R-035
Product Code: 761478-1, 761478-5, 761478-10, 761478-25, 761478-50
CAS Number: 7632-00-0
Supplier Details: High Valley Products, Inc.
 1134 West 850 North
 Centerville, Utah 84014
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2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 3 Oral
 Environmental, Hazards to the aquatic environment - Acute, 1
 Environmental, Hazards to the aquatic environment - Chronic, 1
 Health, Serious Eye Damage/Eye Irritation, 2 A
 Physical, Oxidizing Solids, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

H301 - Toxic if swallowed
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H319 - Causes serious eye irritation
 H272 - May intensify fire; oxidizer

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
 P220 - Keep/Store away from clothing/combustible materials.
 P221 - Take any precaution to avoid mixing with combustibles.
 P264 - Wash skin thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.
P321 - Specific treatment (see First Aid on this label).
P330 - Rinse mouth.
P337+313 - Get medical advice/attention.
P370+378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide for extinction.
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of contents/container according to local regulations.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

| Cas# | % | Chemical Name |
|-----------|---|----------------|
| 7632-00-0 | | Sodium nitrite |

4 FIRST AID MEASURES

Inhalation: If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact: Wash with soap and water. Take victim immediately to a hospital. Consult a physician.
Eye Contact: Flush with large amounts of water. Consult a physician.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 FIRE FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture
No data available

Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further information
No data

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions:

Do not let product enter drains.

Methods and materials for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Handling Precautions:

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition.

Precautions for safe handling:

See section 8 for recommendations on the use of personal protective equipment.

Storage Requirements:

Keep container tightly closed. Keep away from heat, sparks, and flames. Store in cool/dry and well ventilated area.

Personal Protective Equipment:

Sodium nitrite (7632-00-0) []

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Sodium nitrite (7632-00-0) [] : no data available

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-------------------------------|--|--|
| Appearance: | White or yellowish-white crystalline granules. | |
| Physical State: | Solid | Odor: None |
| Odor Threshold: | No data available | Molecular Formula: NaNO2 |
| Spec Grav./Density: | 2.17 | Solubility: No data available |
| Viscosity: | No data available | Freezing/Melting Pt.: 271C (520F) |
| Boiling Point: | 320C (608F) | Flash Point: No data available |
| Partition Coefficient: | No data available | Vapor Density: No data available |
| Vapor Pressure: | No data available | Auto-Ignition Temp: No data available |
| pH: | 9 | UFL/LFL: No data available |
| Evap. Rate: | No data available. | |
| Molecular weight: | 69 | |
| Decomp Temp: | No data available | |

10 STABILITY AND REACTIVITY

| | |
|-----------------------------|--|
| Reactivity: | No data available |
| Chemical Stability: | Stable under recommended storage conditions. |
| Conditions to Avoid: | Moisture. |
| Materials to Avoid: | Acids, powdered metals, ammonia, cyanides, amines, activated carbon, combustible material reducing agents. |

Hazardous Decomposition: Nitrogen oxides, sodium oxides

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TOXICOLOGICAL INFORMATION

Sodium nitrite (7632-00-0) []

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 157.9 mg/kg

LD50 Oral - mouse - 175 mg/kg Remarks: Vascular:BP lowering not characterized in autonomic section. Vascular:Regional or general arteriolar or venous dilation.

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation - 48 h (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - rabbit Result: Moderate eye irritation - 24 h (OECD Test Guideline 405)

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 2A - Group 2A: Probably carcinogenic to humans (Sodium nitrite)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: RA1225000

Headache, Nausea, Incoordination., Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

Liver - Irregularities - Based on Human Evidence

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ECOLOGICAL INFORMATION

Sodium nitrite (7632-00-0) []

Information on ecological effects

Toxicity:

Toxicity to fish flow-through test LC50 - *Oncorhynchus mykiss* (rainbow trout) - 0.94 - 1.92: mg/l - 96.0 h

mortality NOEC - *Oncorhynchus mykiss* (rainbow trout) - 0.54 mg/l - 96.0 h

Toxicity to daphnia and EC50 - *Daphnia magna* (Water flea) - mg/l - 48 h.

other aquatic invertebrates

Persistence and degradability: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

13 DISPOSAL CONSIDERATIONS

Sodium nitrite (7632-00-0) []

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

UN1500, Sodium nitrite, 5.1,(6.1), PGIII

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Sodium nitrite (7632-00-0) [n/a%] CERCLA, CSWHS, MASS, PA, SARA313, TSCA

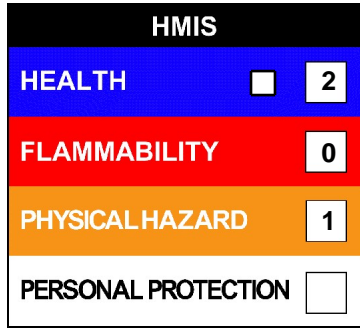
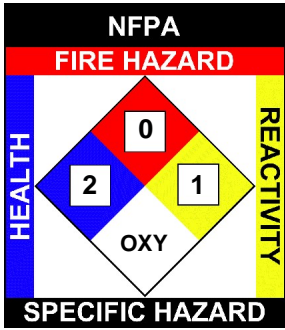
Regulatory CODE Descriptions

CERCLA = Superfund clean up substance
CSWHS = Clean water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TSCA = Toxic Substances Control Act

16 OTHER INFORMATION

NFPA: Health = 2, Fire = 0, Reactivity = 1, Specific Hazard = OXY

HMIS III: Health = 2, Fire = 0, Physical Hazard = 1



Disclaimer:

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