

BWT 3250**1 PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: BWT 3250
Common Name: SODIUM NITRATE
SDS Number: 0429
Revision Date: 4/30/2015
Version: 2
Internal ID: 201C
Product Use: WATER TREATMENT
Supplier Details: U. S. Water Services
12270 43rd St. NE
St. Michael, MN 55376

Contact: Non-emergency #: 866-663-7632
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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, 4 Oral
Health, Skin corrosion/irritation, 2
Health, Acute toxicity, 4 Inhalation
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Specific target organ toxicity - Single exposure, 3
Environmental, Hazards to the aquatic environment - Acute, 2

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:**GHS Hazard Statements:**

H302 - Harmful if swallowed
H315 - Causes skin irritation
H332 - Harmful if inhaled
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H401 - Toxic to aquatic life

GHS Precautionary Statements:

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P281 - Use personal protective equipment as required.

P302+352 - IF ON SKIN: Wash with soap and water.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek medical attention.

P315 - Get immediate medical advice/attention.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Hazards not otherwise classified (HNOC) or not covered by GHS

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

Cas#	%	Chemical Name

7632-00-0	10-20	Sodium nitrite
7631-99-4	< 5	Sodium nitrate

4 FIRST AID MEASURES

Inhalation: Remove from contamination. If symptoms persist, seek medical attention.

Skin Contact: Wash off with soap and plenty of water. Consult a physician if irritation develops.

Eye Contact: Flush eyes with plenty of running water at least 15 minutes. Seek immediate medical attention.

Ingestion: Drink several glasses of water. Seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms & effects (acute & delayed): No data available

Indication of need for immediate medical attention: No data available

Special treatment needs: Notes to physician: Sodium Nitrite forms methemoglobin in the blood stream. Treat accordingly

5 FIRE FIGHTING MEASURES

Flammability: Nonflammable

Flash Point: None

Flash Point Method: Pensky Martens Closed cup

Burning Rate: No data available

Autoignition Temp: No data available

LEL: Not applicable

UEL: Not applicable

Extinguishing Media:

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Suitable: Use extinguishing media suitable for surrounding fire.

Unsuitable: No information available

Hazardous combustion products: Hazardous decomposition products formed under fire conditions- Carbon oxides, and other hazardous compounds

Unusual Fire or Explosion Hazards: Special Remarks on Explosion hazards: It will react explosively with hydrocarbons. Interaction of nitrates when heated with amidosulfates (sulfamtes) may become explosively violent owing to liberation of dinitrogen oxide and steam. Mixtures of sodium nitrate with powdered aluminum or its oxide were reported to be explosive. Mixtures of sodium nitrate and barium thiocyanate may explode. Mixture with sodium nitrate and powdered antimony explode, Mixture of sodium nitrate and sodium thiosulfate or sodium phosphinate explode

Special protective equipment/precautions: Wear self-contained breathing apparatus

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective equipment, emergency procedures: Avoid contact with the material. See section 8 of SDS for PPE recommendations

Environmental Precautions: Keep runoff from entering drains or waterways

Spill/Leak procedures: Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. Place into closed container for disposal.

Regulatory Requirements: Dispose of recovered material in accordance with all applicable state and federal regulations.

7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only!

Storage Requirements: Store in closed containers away from temperature extremes and incompatible materials. Store in properly labeled containers in accordance with all local, state and federal guidelines.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide local exhaust ventilation as needed to control misting.

Personal Protective Equipment: HMIS PP, C | Safety Glasses, Gloves, Apron

Respiratory protection: If needed use MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

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Exposure Limits: **Sodium Nitrite**
NIOSH (TWA/REL): 24 mg/m³
ACGIH (TLV): NE

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to light yellow	Odor:	Amine
Physical State:	Liquid	Solubility:	Complete in water
Odor Threshold:	No data available	Freezing/Melting Pt.:	No data available
Particle Size:	No data available	Flash Point:	No data available
Spec Grav./Density:	9.54 lb/gal	Vapor Density:	Same as water
Viscosity:	No data available	Auto-Ignition Temp:	No data available
Boiling Point:	No data available	UFL/LFL:	No data available
Partition Coefficient:	No data available		
Vapor Pressure:	Same as water		
pH:	11-12		
Evap. Rate:	Not Determined		
Decomp Temp:	No data available		

10 STABILITY AND REACTIVITY

Stability: Product is stable under normal storage and use conditions.

Conditions to Avoid: Avoid temperature extremes. Protect from freezing. Keep container closed when not in use.

Materials to Avoid: Acids, ammonium compounds, cyanides, thiocyanates, thiosulfates. Contact with acids causes release of toxic oxides of nitrogen

Hazardous Decomposition: Thermal decomposition may produce carbon oxides and other toxic compounds.

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:
Sodium Nitrite Oral LD₅₀ (Rat): 88 mg/kg (Moderately Toxic)

Skin Corrosion/Irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No components listed as a carcinogen

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

12 ECOLOGICAL INFORMATION

Aquatic Toxicity

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Sodium Nitrite LC₅₀ 96h 0.19 mg/L (rainbow trout)

Elimination (persistence & degradability): No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

13**DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14**TRANSPORT INFORMATION**

UN3287, Toxic liquid, inorganic, n.o.s., 6.1, PGIII, (Sodium Nitrite)

DOT Transportation data (49 CFR 172.101)

See section 15 of SDS for information on Reportable Quantity chemicals (RQ)

15**REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

RQ(100LBS), Sodium nitrite (7632-00-0) [10-20] CERCLA, CSWHS, MASS, PA, SARA313, TSCA

Sodium nitrate (7631-99-4) [< 5] MASS, NJHS, PA, TSCA

Regulatory CODE Descriptions

RQ = Reportable Quantity

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

NJHS = NJ Right-to-Know Hazardous Substances

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory

EPA / CERCLA / SARA TITLE III:

Extremely Hazardous Substance (SARA 302/304): This product does not contain any extremely hazardous substances subject to emergency planning requirements.

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SARA 312: Acute
RCRA: No data available

16**OTHER INFORMATION**

HMIS III: Health = 2, Fire = 0, Physical Hazard = 1
HMIS PPE: C - Safety Glasses, Gloves, Apron

HMIS	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	C

Author: U.S. Water Services

Revision Notes: Updated to GHS format

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