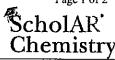
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Sodium Nitrate

MSDS # 683.00



Section 1:

Product and Company Identification

Sodium Nitrate

Synonyms/General Names: Nitrate of soda **Product Use:** For educational use only

Manufacturer: Columbus Chemical Industries, Inc., Columbus, WI 53925.

24 Hour Emergency Information Telephone Numbers

CHEMTREC (USA): 800-424-9300

CANUTEC (Canada): 613-424-6666

ScholAR Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

Section 2:

Hazards Identification

White crystals, granules, powder or prills, no odor.

HMIS (0 to 4)

Reactivity 1

WARNING! Strong oxidizing agent and slightly toxic by ingestion.

Target organs: Red blood cells, central nervous system.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3:

Composition / Information on Ingredients

Sodium Nitrate (7631-99-4), >99%

Section 4:

First Aid Measures

Always seek professional medical attention after first aid measures are provided.

Eyes: Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.

Skin: Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.

Ingestion: Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink.

Induce vomiting immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration.

Section 5:

Fire Fighting Measures

Oxidizing agent. When heated to decomposition, emits acrid fumes of NOx.

Protective equipment and precautions for firefighters: Use foam or dry chemical to extinguish fire. Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is sensitive to mechanical impact. No sensitive to static discharge.



Section 6:

Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Sweep up spill and place in sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

Section 7:

Handling and Storage

Yellow

Handling: Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Shock and friction may cause material to explode.

Storage: Store in Oxidizer Storage Area [Yellow Storage] with other oxidizers and away from any combustible materials. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.

Section 8:

Exposure Controls / Personal Protection

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with a dust cartridge. Exposure guidelines: Sodium Nitrate: OSHA PEL: Not Available, ACGIH: TLV: Not Available, STEL: Not Available.

Sodium Nitrate

Section 9: Physical and Chemical Properties						
Molecular formula Molecular weight Specific Gravity Vapor Density (air=1) Melting Point Boiling Point/Range Vapor Pressure (20°C) Flash Point: Autoignition Temp.:	NaNO ₃ 84.99. 2.17 g/mL @ 20°C. N/A. 308°C. 380°C . N/A. N/A.	Appearance Odor Odor Threshold Solubility Evaporation rate Partition Coefficient pH LEL UEL		tals, powder or prills. water. (Butyl acetate = 1). (log P_{OW}). N/A = Not available or applicable		

Section 10:

Stability and Reactivity

Avoid heat and ignition sources.

Stability: Stable under normal conditions of use and storage.

Incompatibility: Reducing agents, acids, combustibles, flammable materials.

Shelf life: Indefinite if stored properly.

Section 11:

Toxicology Information

Acute Symptoms/Signs of exposure: Eyes: Redness, tearing, itching, burning, conjunctivitis. Skin: Redness, itching. Ingestion: Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain. Inhalation: Irritation of mucous membranes, coughing, wheezing, shortness of breath,

Chronic Effects: No information found.

Sensitization: none expected

Sodium Nitrate: LD50 [oral, rat]; 1267 mg/kg; LC50 [rat]; N/A; LD50 Dermal [rabbit]; N/A

Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.

Section 12:

Ecological Information

Ecotoxicity (aquatic and terrestrial):

Ecological impact has not been determined.

Section 13:

Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Small amounts of this material may be suitable for sanitary sewer or trash disposal.

Section 14:

Transport Information

DOT Shipping Name:

Sodium Nitrate.

Canada TDG:

Sodium Nitrate.

DOT Hazard Class:

5.1, pg III.

Hazard Class:

5.1, pg III.

Identification Number:

UN1498.

UN Number:

UN1498.

Section 15:

Regulatory Information

EINECS: Listed (231-554-3).

WHMIS Canada: C, D2B: Oxidizing material, Toxic material.

TSCA: All components are listed or are exempt.

California Proposition 65: Not listed.

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16:

Other Information

Current Issue Date: January 4, 2012

Disclaimer: Scholar Chemistry and Columbus Chemical Industries, Inc., ("S&C") believes that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because S&C has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. S&C makes no warranty, expressed or implied, including (without limitation) warranties with respect to the completeness or continuing accuracy of the information contained herein or with respect to fitness for any particular use.

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Sodium Nitrite

MSDS #685.00

ScholAR Chemistry

Section 1:

Product and Company Identification

Sodium Nitrite

Synonyms/General Names: Nitrous Acid, Sodium Salt

Product Use: For educational use only

Manufacturer: Columbus Chemical Industries, Inc., Columbus, WI 53925.

24 Hour Emergency Information Telephone Numbers

CHEMTREC (USA): 800-424-9300

CANUTEC (Canada): 613-424-6666

ScholAR Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

Section 2:

Hazards Identification

Yellow-white crystals, no odor.

HMIS (0 to 4)

WARNING! Strong oxidizing agent and highly toxic by ingestion. Carcinogen. Irritant Target organs: Blood, cardiovascular system, smooth muscle.



This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3:

Composition / Information on Ingredients

Sodium Nitrite (7632-00-0), min. 99%

Section 4:

First Aid Measures

Always seek professional medical attention after first aid measures are provided.

Eyes: Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.

Skin: Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.

Ingestion: Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink.

Induce vomiting immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration.

Section 5:

Fire Fighting Measures

Strong Oxidizer. When heated to decomposition, emits acrid fumes.

Protective equipment and precautions for firefighters: Use foam or dry chemical to extinguish fire. Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.



Section 6:

Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Sweep up spill and place in sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

Section 7:

Handling and Storage

Yellow

Handling: Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.

Storage: Store in Oxidizer Storage Area [Yellow Storage] with other oxidizers and away from any combustible materials. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.

Section 8:

Exposure Controls / Personal Protection

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with a dust cartridge. Exposure guidelines: Sodium Nitrite: OSHA PEL: N/A, ACGIH: TLV: N/A, STEL: N/A.

Sodium Nitrite

Section 9: Physical and Chemical Properties						
Molecular formula Molecular weight Specific Gravity Vapor Density (air=1) Melting Point Boiling Point/Range Vapor Pressure (20°C) Flash Point:	NaNO ₂ . 69.00. 2.17 g/mL @ 20°C. 2.39. 271°C. Decomposes @ 320 °C. N/A. N/A.	Appearance Odor Odor Threshold Solubility Evaporation rate Partition Coefficient pH LEL		white crystals. n water. (Butyl acetate = 1). (log P_{OW}).		
Autoignition Temp.:	489°C (912°F).	UEL	IV/AL	N/A = Not available or applicable		

Section 10:

Stability and Reactivity

Avoid heat and ignition sources.

Stability: Stable under normal conditions of use and storage.

Incompatibility: Acids, ammonium compounds, reducing agents.

Shelf life: Indefinite if stored properly.

Section 11:

Toxicology Information

Acute Symptoms/Signs of exposure: Eyes: Redness, tearing, itching, burning, conjunctivitis. Skin: Redness, itching. Ingestion: Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain. Inhalation: Irritation of

mucous membranes, coughing, wheezing, shortness of breath,

Chronic Effects: No information found.

Sensitization: none expected

Sodium Nitrite: LD50 [oral, rat]; 85 mg/kg; LC50 [rat]; 0.55 mg/m³; LD50 Dermal [rabbit]; N/A

Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.

Section 12:

Ecological Information

Ecotoxicity (aquatic and terrestrial): Toxic to beneficial microorganisms (e.g. soil and sewage treatment microorganisms)...

Do not release to environment.

Section 13:

Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

Section 14:

Transport Information

DOT Shipping Name: DOT Hazard Class:

Sodium Nitrite. 5.1 (6.1) pg III.

Canada TDG: Sodium Nitrite. Hazard Class: 5.1 (6.1), pg III.

Identification Number:

UN1500.

UN Number: UN1500.

Section 15:

Regulatory Information

EINECS: Listed (231-555-9).

WHMIS Canada: Not WHMIS controlled.

California Proposition 65: Not listed.

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16:

Other Information

Current Issue Date: January 4, 2012

TSCA: All components are listed or are exempt.

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