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Material Safety Data Sheet Sodium Nitrate

ACC# 21400

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium Nitrate

Catalog Numbers: S71996, S71997, S71998, S78698, S78699, BP360 500, BP360-500, BP360500, S342 3, S342-3, S3423, S343 3, S343 500, S343-10, S343-3, S343-500, S3433, S343500, S71998-1

Synonyms: Nitratine, soda niter, chile saltpeter

Company Identification:

Fisher Scientific
1 Reagent Lane
Fairlawn, NJ 07410

For information, call: 201-796-7100

Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7631-99-4	Sodium nitrate	100	231-554-3

Hazard Symbols: O

Risk Phrases: 8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colourless. **Danger!** Oxidizer. May be harmful if swallowed. Causes eye and skin irritation. Causes digestive and respiratory tract irritation.

Target Organs: None.**Potential Health Effects****Eye:** Causes eye irritation.**Skin:** Causes skin irritation.**Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation.**Inhalation:** May cause respiratory tract irritation. May cause methemoglobinemia, cyanosis, convulsions, tachycardia, dyspnea, and death.**Chronic:** No information found.**Section 4 - First Aid Measures****Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid. Induce vomiting by giving one teaspoon of Syrup of Ipecac.**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.**Notes to Physician:** Treat symptomatically and supportively.**Antidote:** None reported**Section 5 - Firefighting Measures****General Information:** Strong oxidizer. Contact with combustible materials may cause a fire. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.**Extinguishing Media:** Use water only!**Autoignition Temperature:** Not available.**Flash Point:** Not available.**NFPA Rating:** Not published. Explosion Limits, Lower: Not available. Upper: Not available.**Section 6 - Accidental Release Measures****General Information:** Use proper personal protective equipment as indicated in Section 8.**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.**Section 7 - Handling and Storage****Handling:** Wash thoroughly after handling. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Avoid contact with clothing and other combustible materials.**Storage:** Do not store near combustible materials. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium nitrate	none listed	none listed	none listed

OSHA Vacated PELs: Sodium nitrate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: colourless

Odor: odorless

pH: 7.0

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate:

Viscosity: Not available.

Boiling Point: 716 deg F

Freezing/Melting Point: 586 deg F

Decomposition Temperature: 716 deg F

Solubility: Soluble in water

Specific Gravity/Density: 2.26

Molecular Formula: NaNO₃

Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable.

Conditions to Avoid: Incompatible materials, combustible materials, reducing agents, strong acids.

Incompatibilities with Other Materials: Oxidizable materials, including barium rhodanide, antimony, boron phosphide, cyanides, sodium hypophosphite, sulfur plus charcoal, powdered aluminum or aluminum oxide, sodium thiosulphate, metal sulfides, sodium acetate, fluorine, zinc, and trichloroethylene.

Hazardous Decomposition Products: Oxides of nitrogen.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 7631-99-4: WC5600000

LD50/LC50:

CAS# 7631-99-4:

Oral, rabbit: LD50 = 2680 mg/kg;

Oral, rat: LD50 = 1267 mg/kg;

Carcinogenicity:

CAS# 7631-99-4: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Neurotoxicity: No data available.

Mutagenicity: No data available.

Other Studies: No data available.

Section 12 - Ecological Information

Ecotoxicity: This material will not cause oxygen depletion in aquatic systems. It has a low potential to affect aquatic organisms, secondary waste treatment microorganisms, and the growth of some plants. It has a moderate potential to affect the germination of some plants. Acute aquatic effects: 96-hour LC50;

Fathead minnow: GT 1000 mg/L 96-hour LC50; Water flea: GT 1000 mg/L

Environmental Fate: This chemical is not likely to bioconcentrate.

Physical/Chemical: No information found.

Other: No information found.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA D-Series Maximum Concentration of Contaminants: None listed.

RCRA D-Series Chronic Toxicity Reference Levels: None listed.

RCRA F-Series: None listed.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TD
Shipping Name:	SODIUM NITRITE	No information available.	No information available.	No information available. SODIUM NITRATE	
Hazard Class:	5.1			5.1	
UN Number:	UN1500			UN1498	
Packing Group:	III			III	

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7631-99-4 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA**Section 302 (RQ)**

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7631-99-4: flammable.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7631-99-4 can be found on the following state right to know lists: New Jersey, Florida, Pennsylvania, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

O

Risk Phrases:

R 8 Contact with combustible material may cause fire.

Safety Phrases:**WGK (Water Danger/Protection)**

CAS# 7631-99-4: 1

Canada

CAS# 7631-99-4 is listed on Canada's DSL/NDSL List.

This product has a WHMIS classification of C, D2B.


CAS# 7631-99-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits**Section 16 - Additional Information**

MSDS Creation Date: 12/19/1994

Revision #5 Date: 12/12/1997

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