



MATERIAL SAFETY DATA SHEET

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Sodium nitrate 21400

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Sodium nitrate

Catalog Numbers:

BPE360-500, S/5520, S/5560

Synonyms:

Nitratine, soda niter, chile saltpeter

Company Identification: Fisher Scientific UK

Bishop Meadow Road
Loughborough, Leicestershire
LE11 5RG, UK

For information, call: 01509 231166

For emergencies, call: 01509 231166

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	:	7631-99-4
Chemical Name	:	Sodium nitrate
%	:	100
EINECS#	:	231-554-3
Haz Symbols	:	None Listed
Risk Phrases	:	None Listed

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not available.

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.

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 eyelids. Get medical aid.

Skin:

Flush skin with plenty of 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 and move 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:

SECTION 5 - FIRE FIGHTING 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!

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.

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

Color: Colorless, transparent crystals or white powder

Odor: Odorless

pH: 7.0

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: 716 deg F

Freezing/Melting Point: 586 deg F

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: 716 F

Solubility in water: Soluble in water

Specific Gravity/Density: 2.26

Molecular Formula: NaNO_3

Molecular Weight: 84.9947

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, mouse: LD50 = 3500 mg/kg; Oral, rabbit: LD50 = 2680 mg/kg; Oral, rat: LD50 = 1267 mg/kg.

Carcinogenicity:

Sodium nitrate -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

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

SECTION 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name: SODIUM NITRATE

Hazard Class: 5.1

UN Number: 1498

Packing Group: III

IMO

Shipping Name: SODIUM NITRATE

Hazard Class: 5.1

UN Number: 1498

Packing Group: III

RID/ADR

Shipping Name: SODIUM NITRATE

Hazard Class: 5.1

UN Number: 1498

Packing group: III

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

- S 17 Keep away from combustible material.
- S 24/25 Avoid contact with skin and eyes.
- S 36/37 Wear suitable protective clothing and gloves.

WGK (Water Danger/Protection)

CAS# 7631-99-4: 1

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

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

CAS# 7631-99-4 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

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

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 8/30/1996 Revision #0 Date: Original.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.