



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Sodium Nitrate**  
PRODUCT NUMBER: 3292  
CAS NUMBER: 7631-99-4  
SYNONYMS: Nitric acid, sodium salt, sodium saltpeter

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.

### Precautionary Phrases

P221	Take any precaution to avoid mixing with combustibles.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P220	Keep/Store away from clothing/combustible materials.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
P370+P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.

### HMIS CLASSIFICATION:

Health: 1      Fire: 0      Reactivity Hazard: 1

### NFPA RATING:

Health: 0      Flammability: 0      Reactivity Hazard: 1      Special: OX

**EYE CONTACT:** Causes slight to mild irritation of the eyes.

**SKIN CONTACT:** Causes slight to mild irritation of the skin.

**INHALATION:** Irritating to the nose, mucous membranes, and respiratory tract.

**INGESTION:** Harmful if swallowed. Ingestion can lead to increased pulse rate and changes in blood chemistry.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $\text{NaNO}_3$

Molecular Weight: 84.99

CHEMICAL NAME	CAS#	%
Sodium Nitrate	7631-99-4	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with soap and plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not available

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Carbon dioxide, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam. **UNSUITABLE:** Halocarbon extinguisher.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Nitrogen oxides and sodium oxide

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust. Acts as an oxidizing agent on organic materials such as wood, paper, and fats. Keep away from combustible materials.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Spills can be mixed with vermiculite or sodium carbonate. Sweep up and place in suitable container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Keep away from heat and direct sunlight. Keep away from sources of ignition and heat.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store away from flammable substances, reducing agents, organic materials, metal powders, water, and moisture. Hygroscopic. Protect from humidity and water.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Contains no substances with occupational exposure limit values.

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, apron, or lab coat.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White solid  
**ODOR:** None  
**MOLECULAR WEIGHT:** 84.99  
**BOILING POINT:** 380° C (dec.)  
**MELTING POINT:** 308 °C  
**SPECIFIC GRAVITY:** 2.261 gm/ml  
**VAPOR DENSITY:** No data available  
**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**CONDITIONS TO AVOID:** Fusion of metal cyanide mixtures with chlorates, perchlorates, nitrates, or nitrites cause a violent explosion. Addition of one solid component to another molten component is also highly dangerous. Heat.  
**INCOMPATIBILITY:** Reducing agents, water, moisture, flammable substances, organic materials, and metal powders.  
**DECOMPOSITION PRODUCTS:** Nitrogen oxide and sodium oxide

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – Rat – 1267 mg/kg.  
**CARCINOGENIC EFFECTS:** No data on carcinogenic properties of this material.  
**MUTAGENIC EFFECTS:** Not available  
**TETRATOGENIC EFFECTS:** Not available  
**RTECS:** WC5600000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

**TOXICITY TO FISH:** Static test LC50 – *Gambusia affinis* (Mosquito fish) – 6,650 mg/l – 96 h.  
**TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:** EC50 – *Daphnia magna* (Water flea) – 6,000 mg/l – 24 h.

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

UN1498  
Sodium Nitrate  
Class 5.1  
PG III

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory  
**SARA 302/304:** Not listed  
**SARA 311/312:** Reactivity Hazard  
**SARA (TITLE 313):** Sodium Nitrate

## **SECTION 15 REGULATORY INFORMATION (Cont.)**

**MASSACHUSETTS RIGHT TO KNOW:** Sodium Nitrate

**PENNSYLVANIA RIGHT TO KNOW:** Sodium Nitrate

**NEW JERSEY RIGHT TO KNOW:** Sodium Nitrate

**CALIFORNIA PROP. 65:** Not Listed

## **SECTION 16 OTHER INFORMATION**

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DATE PREPARED: 02/15

SDS DEPT.