

# SAFETY DATA SHEET

Creation Date 21-Oct-2010 Revision Date 8-Apr-2023 Revision Number 1

### 1. Identification

Product Name Sodium nitrate

Cat No. : C7600

Synonyms Chile saltpeter.; Cubic niter; Soda niter

Recommended Use Laboratory chemicals

Uses advised against No Information available

Details of the supplier of the safety data sheet

CompanyEmergency Telephone NumberLab Alley LLCInfotrac: 800-535-5053

22111 Highway 71 West, Suite 601

Spicewood, Texas 78669 Tel.: 512-668-9918

# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids
Category 3
Skin Corrosion/irritation
Category 2
Serious Eye Damage/Eye Irritation
Category 2
Carcinogenicity
Category 1B
Specific target organ toxicity (single exposure)
Category 3

Target Organs - Respiratory system.

Specific target organ toxicity - (repeated exposure) Category 2

Target Organs - Liver, Heart, Blood.

#### **Label Elements**

### **Signal Word**

Danger

#### **Hazard Statements**

May intensify fire; oxidizer Causes skin irritation Causes serious eye irritation May cause cancer

May cause respiratory irritation

May cause damage to organs through prolonged or repeated exposure



#### **Precautionary Statements**

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

#### Response

IF exposed or concerned: Get medical attention/advice

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention.

### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

# Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

### **Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / information on ingredients

### Haz/Non-haz

Component	CAS-No	Weight %
Sodium nitrate	7631-99-4	>95

# 4. First-aid measures

**General Advice** 

If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Notes to Physician Treat symptomatically.

# 5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire..

Unsuitable Extinguishing Media Carbon dioxide (CO2)

Flash Point No information available.

Method - No information available.

**Autoignition Temperature** 

**Explosion Limits** 

Not applicable

UpperNo data availableLowerNo data available

Oxidizing Properties Oxidizer

Sensitivity to mechanical

impact

No information available.

Sensitivity to static discharge No information available.

### **Specific Hazards Arising from the Chemical**

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products Sodium oxides., Nitrogen oxides (NOx).

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA** 

HealthFlammabilityInstabilityPhysical hazards202OX

### 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental Precautions Avoid release to the environment. See Section 12 for additional ecological Information.

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**Up** formation.

Methods for Containment and Clean

# 7. Handling and storage

**Handling** Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin,

or on clothing. Avoid ingestion and inhalation. Avoid dust formation. Keep away from clothing

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust

and other combustible materials.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near

combustible materials.

# 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location. Ensure

adequate ventilation, especially in confined areas.

**Personal Protective Equipment** 

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical State Solid Crystalline

Appearance White Odor odorless

Odor Threshold<br/>pHNo information available.5.5-8 5% aq. solution

Melting Point/Range 306°C / 582.8°F Boiling Point/Range 380°C / 716°F

Flash Point No information available.

Evaporation Rate Not applicable

Flammability (solid,gas) No information available.

Flammability or explosive limits
Upper
No data available

Lower No data available
Vapor Pressure No information available.

Vapor Density Not applicable

Relative Density

No information available.

Solubility

No information available.

Partition coefficient; n-octanol/water No data available

Autoignition Temperature

Not applicable
380 °C

Viscosity
Not applicable
Molecular Formula
Not applicable

# 10. Stability and reactivity

Reactive Hazard Yes

Stability Stable under normal conditions. Oxidizer: Contact with combustible/organic material may

cause fire. Hygroscopic.

Conditions to Avoid Avoid dust formation. Incompatible products. Combustible material. Excess heat. Exposure to

air or moisture over prolonged periods.

Incompatible Materials Strong oxidizing agents, Strong reducing agents, Combustible material

Hazardous Decomposition Products Sodium oxides., Nitrogen oxides (NOx)

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

### **Acute Toxicity**

#### **Product Information**

**Component Information** 

	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
	Sodium nitrate	>2000 mg/kg ( Rat )	Not listed	Not listed

**Toxicologically Synergistic** 

**Products** 

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

**Sensitization** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium nitrate	7631-99-4	Group 2A	Not listed	Not listed	Not listed	Not listed

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

Mutagenic Effects No information available.

**Reproductive Effects** Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental EffectsNo information available.TeratogenicityNo information available.

**STOT - single exposure** Respiratory system. **STOT - repeated exposure** Liver, Heart, Blood.

Aspiration hazard No information available.

Symptoms / effects, both acute and delayed

No information available.

**Endocrine Disruptor Information** No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals.. See actual entry in RTECS

for complete information.

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# 12. Ecological information

#### **Ecotoxicity**

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium nitrate	Not listed	2000 mg/L LC50 96 h	Not listed	6000 mg/L 24h
		994.4-1107 mg/L LC50 96 h		_

**Persistence and Degradability** Soluble in water, Persistence is unlikely, based on information available.

Bioaccumulation/ Accumulation No information available

**Mobility** . Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Sodium nitrate	-3.8

# 13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national

hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

UN-No UN1498

Proper Shipping Name SODIUM NITRATE

Hazard Class 5.1 Packing Group III

**TDG** 

**UN-No** UN1498

Proper Shipping Name SODIUM NITRATE

Hazard Class 5.1 Packing Group III

**IATA** 

**UN-No** UN1498

Proper Shipping Name SODIUM NITRATE

Hazard Class 5.1 Packing Group III

IMDG/IMO

UN-No UN1498

Proper Shipping Name SODIUM NITRATE

Hazard Class 5.1 Packing Group III

# 15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Sodium nitrate	Х	Х	-	231-554-3	-		X	X	Χ	X	X

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### **U.S. Federal Regulations**

TSCA 12(b)

Not applicable

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Sodium nitrate	7631-99-4	>95	1.0

### SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard Yes

Clean Water Act Not applicable

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

### **CERCLA**

Not Applicable

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium nitrate	X	-	X	-	X

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product contains the following DHS chemicals:

Component	DHS Chemical Facility Anti-Terrorism Standard
Sodium nitrate	2000 lb STQ

### **Other International Regulations**

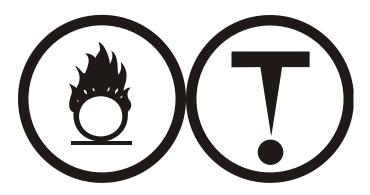
Mexico - Grade No information available

Canada

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

WHMIS Hazard Class C Oxidizing materials

D2A Very toxic materials D2B Toxic materials



### 16. Other information

Prepared By Regulatory Affairs

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Email: customerservice@laballey.com

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**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

### **Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**