


# SAFETY DATA SHEET

## SODIUM NITRATE

### SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

<b>1.1 Product identifier:</b>	
<b>CAS Number:</b>	7631-99-4
<b>EC number:</b>	231-554-3
<b>1.2 SYNONYMS:</b>	<ul style="list-style-type: none"> <li>• Chile saltpeter</li> <li>• Sodium nitrate(V)</li> <li>• Natrium nitrate</li> <li>• Soda niter</li> <li>• Sodium salpetre</li> <li>• Nitrate of soda</li> <li>• Sodium nitratum</li> </ul>

### SECTION 2: Hazards identification:

<b>2.1 Classification of the substance or mixture:</b>	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
<b>2.2 Label elements:</b>	Labelling according to Regulation (EC) No 1272/2008 Oxidizing solids (Category 2) Serious eye damage/ eye irritation (Category 2A)
<b>Hazard Pictograms:</b>	
<b>Signal Word:</b>	Danger
<b>Hazard statements:</b>	<b>H272:</b> May intensify fire; oxidizer. <b>H319:</b> Causes serious eye irritation.
<b>Precautionary Statements:</b>	<b>P210:</b> Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. <b>P280:</b> Wear protective gloves and eye/face protection.

	<p><b>P221:</b> Take any precaution to avoid mixing with combustibles.</p> <p><b>P220:</b> Keep/Store away from clothing/combustible materials.</p> <p><b>P264:</b> Wash with plenty of water and soap thoroughly after handling.</p> <p><b>P305 + P351 + P338:</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p><b>P337 + P311:</b> If eye irritation persists: Call a POISON CENTER or doctor/physician.</p> <p><b>P370 + P378:</b> In case of fire: Use water spray for extinction.</p> <p><b>P501:</b> Dispose of contents/container to hazardous or special waste collection point.</p>
<b>2.3 Other hazards:</b>	
<b>Inhalation:</b>	can cause respiratory irritation, coughing, and difficulty breathing, and prolonged exposure may lead to more severe lung damage.
<b>Ingestion:</b>	can cause nausea, vomiting, abdominal pain, and in severe cases, methemoglobinemia, which reduces the blood's ability to carry oxygen.
<b>Skin Contact:</b>	can cause irritation, redness, and dry skin, and prolonged exposure may lead to more severe skin damage or chemical burns.
<b>Eye contact:</b>	can cause irritation, redness, pain, and potential damage to the cornea, leading to vision impairment if not promptly treated.
<b>Chronic Exposure:</b>	can lead to methemoglobinemia, where the blood's ability to carry oxygen is impaired, as well as potential damage to the liver and

	kidneys, and an increased risk of cancer due to long-term exposure to high levels of nitrates.
<b>Aggravation of pre-existing conditions:</b>	may aggravate pre-existing conditions such as respiratory disorders (e.g., asthma), cardiovascular diseases, or kidney and liver impairments, due to its impact on oxygen transport and organ function.

### SECTION 3: Composition/information on ingredients

<b>3.1 Chemical characterisation:</b>	Substances
<b>CAS No:</b>	Description: 7631-99-4 SODIUM NITRATE
<b>Identification number(s):</b>	EC number: 231-554-3

### SECTION 4: First aid measures

<b>4.1 Description of first aid measures</b>	
<b>General information:</b>	
<b>After inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>After skin contact:</b>	Remove contaminated clothing. Wash with soap and water. Consult a physician.
<b>After eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
<b>After swallowing:</b>	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not

	induce vomiting. Consult a physician.
<b>4.2 Most important symptoms and effects, both acute and delayed:</b>	Vomiting, methaemoglobinaemia, weakness, abdominal cramps, diarrhea, headache, Danger of methaemoglobin formation after ingestion.
<b>4.3 Indication of any immediate medical attention and special treatment needed:</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

<b>5.1 Extinguishing media:</b>	Carbon dioxide. Water spray. Alcohol-resistant foam.
<b>5.2 Special hazards arising from the substance or mixture:</b>	Nitrogen oxides.
<b>5.3 Advice for firefighters:</b>	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
<b>5.4 further information:</b>	no data available

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
<b>6.2 Environmental precautions:</b>	Do not enter this chemical into drains.

<b>6.3 Methods and material for containment and cleaning up:</b>	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
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## SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling:</b>	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. Do not handle in flammable atmospheres.
<b>Requirements to be met by storerooms and receptacles:</b>	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
<b>7.3 Specific end uses:</b>	no data available

## SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	
<b>Additional information about design of technical facilities:</b>	A system of local and general exhaust is recommended.
<b>8.2 Exposure controls</b>	
<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Personal protective equipment:</b>	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
<b>General protective and hygienic measures:</b>	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	<b>Respiratory protection:</b> Required.
<b>Protection of hands:</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	<b>Eye protection:</b> Required
<b>Protection of Body:</b>	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

## SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical and chemical properties</b> <b>General Information</b>	
<b>Appearance: Form:</b>	Crystalline solid granules
<b>Colour:</b>	White
<b>Odour:</b>	Faint
<b>pH-value:</b>	6

<b>Melting point/Melting range:</b>	308°C
<b>Boiling point/Boiling range:</b>	380°C
<b>Flammability (solid, gaseous):</b>	Non- Flammable
<b>Ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	380°C
<b>Self-igniting:</b>	None
<b>Flash point:</b>	Not applicable
<b>Danger of explosion:</b>	Yes
<b>Explosion limits: Lower:</b>	Not applicable
<b>Explosion limits: Upper:</b>	Not applicable
<b>Vapour pressure:</b>	Not applicable
<b>Density at 20 °C:</b>	2.257 g/cm <sup>3</sup>
<b>Relative density:</b>	2.257
<b>Vapour density:</b>	Not applicable
<b>Evaporation rate:</b>	Not determined
<b>Solubility in / Miscibility with- water at 20 °C:</b>	Highly Soluble
<b>Partition coefficient:(n- octanol/water)</b>	Not applicable
<b>Viscosity:</b>	Not applicable

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	Can undergo combustible reaction as it is a strong oxidizer.
<b>10.2 Chemical stability</b>	This chemical is stable under storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	Can undergo violent reactions due to its oxidizing properties.
<b>10.4 Conditions to avoid</b>	Excessive heat, Open flames or sparks, Shock or friction, Moisture.
<b>10.5 Incompatible materials</b>	Reducing agents, Acids, Combustible materials.
<b>10.6 Hazardous decomposition products</b>	Nitrogen oxides, oxygen.

## SECTION 11: Toxicological information

<b>11.1 Information on toxicological effects</b>	
<b>Acute Toxicity:</b>	<b>LD50</b> (Oral, Rat):3430 mg/kg <b>LD50</b> (Dermal, Rabbit): 5000 mg/kg <b>LC50</b> (Inhalation Rat): no data available.
<b>Skin corrosion/Irritation:</b>	No data available
<b>Serious eye damage/irritation:</b>	Causes serious eye irritation.
<b>Respiratory damage/irritation:</b>	No data available
<b>Ingestion:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	No data available
<b>Reproductive toxicity:</b>	No data available
<b>Specific target organ toxicity - single exposure:</b>	No data available
<b>Specific target organ toxicity - repeated exposure:</b>	may cause damage to the hematological system after repeated ingestion.
<b>Aspiration hazard:</b>	No data available
<b>Signs and Symptoms of Exposure:</b>	Refer section 2.3
<b>11.2 Additional toxicological information</b>	
<b>Biodegradability:</b>	Not Biodegradable

## SECTION 12: Ecological information

<b>12.1 Toxicity</b> <b>Aquatic toxicity:</b>	LC50(fish): 7.950 mg/l (96 hr) EC50(daphnia): 8.6 mg/l (24 hr) ErC50(algae): 1.7 mg/l (72 hr)
<b>12.2 Persistence and degradability:</b>	Not Biodegradable
<b>12.3 Bioaccumulative potential:</b>	low bioaccumulative
<b>12.4 Mobility in soil:</b>	High mobility
<b>12.5 Other adverse effects:</b>	No data available



## SECTION 13: Disposal considerations

13.1 Waste treatment methods	
<b>Uncleaned packaging Recommendation:</b>	dispose of in accordance with local hazardous waste regulations
<b>Recommended cleansing agents:</b>	Water, Dilute Sodium Carbonate, Dilute Acids, Absorbent Materials, Detergents.

## SECTION 14: Transport information

<b>14.1 UN-Number · ADR, ADN, IMDG, IATA:</b>	1498
<b>14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:</b>	SODIUM NITRATE
<b>14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :</b>	5.1
<b>14.4 Packing group · ADR, IMDG, IATA:</b>	3
<b>14.5 Environmental hazards:</b>	None
<b>14.6 Special precautions for user:</b>	Handle responsibly.

## SECTION 15: Regulatory information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU</b>	Directive 2012/18/EU, under that this substance is classified in listed substance as oxidizing substance.
<b>Named dangerous substances:</b>	This substance is listed in the part 1 of annex 1 to the directive.
<b>15.2 Chemical safety assessment:</b>	Chemical assessment has been carried out under REACH regulation.

## SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information.

However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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