Material Safety Data Sheet / Safety Data sheet
Sodium Nitrate

Section 1: Chemical Product Identifier and Synonyms

Product Name: Sodium Nitrate

UN Number: UN1498

CAS Number: 7631-99-4

Synonym: Paru Saltpetre, Paru Saltpeter

Chemical Formula: NaNO3

Section 2: Composition and Information on Ingredients

Composition

Name	CAS Number:	% By Weight
Sodium Nitrate	7631-99-4	100%

Toxicology Data On Ingredients: Sodium Nitrate LD50: Not Available. LC50: Not Available

Section 3: Hazards Identification

Potential Acute Health Effects:

May cause cancer (Ingestion). Causes damage to organs (blood, liver, heart).
May cause respiratory irritation.
Causes skin irritation.
Causes serious eye irritation, nausea and vomiting.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:

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.

Skin Contact:

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Section 5: Fire and Explosion Data

Flammability of the Product: May intensify fire; oxidizer.

Auto-Ignition Temperature: Not available.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances: Not available.

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Fight fire remotely due to the risk of explosion.

Do not enter fire area without proper protective equipment, including respiratory protection.

Special Remarks on Fire Hazards: Do not use a heavy water stream.

Special Remarks on Explosion Hazards: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Section 6: Accidental Release Measures

Small Spill:

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

Large Spill:

On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Section 7: Handling and Storage

Precautions:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Take any precaution to avoid mixing with Combustibles. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only outdoors or in a well-ventilated area.

Storage:

Keep only in the original container in a cool, well ventilated place away from: combustible materials, Heat sources, Ignition sources. Keep in fireproof place. Keep container tightly closed.

Section 8: Exposure Controls / Personal Protection

Engineering Controls:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal Protection:

Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter type P3.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Free Flowing Granular / Crystalline Powder (20 to 80 MESH)
Odour: Odourless.
Taste: Not available.
Molecular Weight: 84.99 g/mole
Colour: White
pH (1% soln/water): 5.5 - 8.5 5% aqueous solution
Boiling Point: 380 °C
Melting Point: 306 °C
Critical Temperature: Not available.
Specific Gravity: 2.261 (Water = 1)
Vapour Pressure: Not available.
Vapour Density: Not available.
Volatility: Not available.

Odour Threshold: Not available.
Water/Oil Dist. Coeff.: Not available.
Ionicity (in Water): Not available.
Dispersion Properties: Not available.
Solubility: Soluble in water. Soluble in ethanol. Soluble in methanol. Soluble in ammonia. Water: 92.1 g/100ml

Section 10: Stability and Reactivity Data

Stability: The product is stable under normal conditions.
Instability Temperature: Not available.
Conditions of Instability: Moisture.
Incompatibility with various substances: Not available.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity: Not available.
Polymerization: Not available.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.
Toxicity to Animals: (LD50): Not available. LC50: Not available.
Chronic Effects on Humans: Not available.
Other Toxic Effects on Humans: Slightly hazardous in case of ingestion, of inhalation. May cause harm to breastfed babies.
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Avoid release to the environment.
BOD5 and COD: Not available.
Products of Biodegradation: Not available.
Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Information

Waste Disposal: Dispose of in accordance with local regulations

Section 14: Transport Information

DOT Classification: CLASS 5.1: Oxidizing material.

Identification: Sodium Nitrate, UN Number: UN1498 PG: III

Special Provisions for Transport: Not available.

Section 15: Regulatory Information

Regulations: Labelling according to Regulation (EC) No 1272/2008.

Section 16: Other Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. The author will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.

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