1. IDENTIFICATION

Product Name: SODIUM NITRATE
Synonyms: Soda niter; Sodium (I) nitrate; Nitric acid sodium salt; Chile saltpeter
Formula and Formula Weight: NaNO₃ 84.99
Integra numbers beginning with: S492.10; S492.32
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company 24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification: Hazard Category: Hazard Statement:
Acute Toxicity - Oral 4 Harmful if swallowed.
Skin Corrosion/Irritation 2 Causes skin irritation.
Eye Damage/Irritation 2A Causes serious eye irritation.
Specific Target Organ Toxicity (single exposure) 3 May cause respiratory irritation.
Oxidizing Solids 3 May intensify fire; oxidizer.

Signal Word: Warning

Precautionary Statements

Prevention:
Keep away from heat.
Keep and store away from clothing, combustible materials.
Take any precaution to avoid mixing with combustibles.
Avoid breathing dust, fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection, face protection.

Response
If swallowed: Rinse mouth. Call a poison center, doctor if you feel unwell.
If on skin: Wash with plenty of water.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center, doctor if you feel unwell.
Specific treatment (see first aid section on this label)
If skin irritation occurs: Get medical advice, attention.
If eye irritation persists: Get medical advice, attention.
Take off contaminated clothing and wash it before reuse.

Storage
Store in a well ventilated place. Keep container tightly closed.
Store locked up.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrate</td>
<td>Soda niter; Sodium (I) nitrate; Nitric acid sodium salt; Chile saltpeter</td>
<td>07631-99-4</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing.
Physica and Chemical Properties

Vapor Pressure: Not available
Odor: Odorless
Odor Threshold: Not available
pH: The aqueous solution is neutral
Partition Coefficient: n-octanol/water: Not available
Decomposition Temperature: 380 °C
Viscosity: Not available
Appearance: Colorless or white crystals, granules or powder
Solubility: Soluble in water

Fire-fighting Measures

Extinguishing Media: Water spray.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: Strong oxidizer. Contact with combustible or flammable materials can cause fire or explosion.
Hazardous combustion products: Oxides of nitrogen, Oxides of sodium.

Accidental Release Measures

Spill Procedures: Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into clean, dry disposal container in a manner that does not generate dusts. Flush spill area with water.

Handling and Storage

Incompatible Materials: Incompatible with strong acids. Cyanides, thiocyanates, combustible or organic materials, strong reducing agents, aluminum, powdered metals, alkali metals.
Storage and Handling: Store locked up in a cool, dry, well-ventilated area dedicated to the storage of oxidizers. Keep away from incompatible materials, especially flammable or combustible materials. Keep containers tightly closed and protect them from physical damage. Protect from direct light and minimize contact with air. Hygroscopic material - keep dry. Prevent dispersion of dusts.
Keep away from heat.
Keep and store away from clothing, combustible materials.
Take any precaution to avoid mixing with combustibles.
Avoid breathing dust, fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection, face protection.

Exposure Controls and Personal Protection

OSHA & ACGIH Exposure Limits:
Sodium nitrate None identified
Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.
Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate filter.
Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

Physical and Chemical Properties

Appearance: Colorless or white crystals, granules or powder
Odor: Odorless
Odor Threshold: Not available
pH: The aqueous solution is neutral
Melting/Freezing Point: 308 °C
Initial Boiling Point and Boiling Range: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability: Not available
Flammable or Explosive Limits (% by volume in air) Upper: Not available
Lower: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Relative Density: 2.26 g/cc
Solubility: Soluble in water
Partition Coefficient: n-octanol/water: Not available
Auto-Ignition Temperature: Not available
Decomposition Temperature: 380
Viscosity: Not available

Stability and Reactivity

Reactivity: No information available

OSHA SDS #: 26435 rev 101  3/27/2015  SODIUM NITRATE
11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:

Inhalation: Harmful if inhaled. Irritating to the nose and throat and respiratory system. Overexposure may cause coughing, difficulty in breathing and chest pains.

Skin Contact: May cause skin irritation. Prolonged contact may cause dermatitis.

Eye Contact: Contact may be irritating to the eyes.

Ingestion: Ingestion of large quantities may cause gastrointestinal irritation, nausea and vomiting. May cause gastroenteritis, abdominal pain, diarrhea, headache, dizziness, confusion, incoordination, convulsions, labored breathing, metabolism acidosis, muscular weakness, fatigue, accelerated heart rate, orthostatic hypotension, unconsciousness. Severe cases may result in methemoglobinemia due to inadequate oxygenation of the blood, leading to progressive cyanosis (blue lips, fingernails and skin) and coma. In rare cases nitrates may be converted into more toxic nitrites.

Chronic Effects: No information available

Target Organs: Central nervous system, blood

Additional Effects: No information available

Reproductive Effects: This material may cause adverse reproductive effects. May be a mutagen.

Carcinogenicity: Sodium nitrate is listed by the IARC as Group 2A, Probable Human Carcinogen [as Nitrate or nitrite (ingested) under conditions that result in endogenous nitration].

Toxicity Data:

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50 (intravenous, mouse)</th>
<th>LD50 (oral, rat)</th>
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<tbody>
<tr>
<td>Sodium nitrate</td>
<td>175 mg/kg</td>
<td>1267 mg/kg</td>
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</tbody>
</table>

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data:

Sodium nitrate LC50 Gambusia affinis: 6650 mg/L - 96h; No information available

Terrestrial Toxicity Data:

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility in soil: No information available

Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transportation, per CFR Title 49.

UN Number: UN1498

Proper Shipping Name: Sodium nitrate

Packing Group: III

Hazard Class: 5.1

Environmental hazards: No information available

Special precautions: No information available

Bulk transport: No information available

15. REGULATORY INFORMATION

Sodium nitrate is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 26435 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available

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***** END OF SDS *****