

SODIUM NITRATE  
83434

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone	1-800-ASHLAND (1-800-274-5263)

Product name	SODIUM NITRATE
Product code	83434
Product Use Description	No data

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

Appearance: solid,, white

**Potential Health Effects**

**Routes of exposure**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

**Eye contact**

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

**Skin contact**

May cause mild skin irritation. Symptoms may include redness and burning of skin. This material is unlikely to pass into the body through the skin.

**Ingestion**

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

**Inhalation**

This material is a dust or may produce dust. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

SODIUM NITRATE  
83434

**Aggravated Medical Condition**

Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

**Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), Cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), Lowered blood pressure, effects on heart rate, Lack of coordination, Difficulty in breathing, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), Convulsions, and death, May cause methemoglobinemia, a blood abnormality that may cause headache, difficulty breathing, lightheadedness, weakness, confusion, rapid heart rate and cyanosis (lack of oxygen in the tissues causing blue-colored skin and nails).

**Target Organs**

No data

**Carcinogenicity**

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

**Reproductive hazard**

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Components</b>	<b>CAS-No.</b>	<b>Concentration</b>
SODIUM NITRATE	7631-99-4	<=100%

**4. FIRST AID MEASURES**

**Eyes**

SODIUM NITRATE  
83434

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

### **Skin**

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

### **Ingestion**

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

### **Inhalation**

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

### **Notes to physician**

**Hazards:** Overexposure to this product (or a component) may cause methemoglobinemia, which in sufficient concentration causes cyanosis. Severe cyanosis may require intravenous injection of methylene blue. Methylene blue is contraindicated if the patient has confirmed or suspected glucose-6-phosphate dehydrogenase deficiency.

**Treatment:** No information available.

## **5. FIRE-FIGHTING MEASURES**

### **Suitable extinguishing media**

Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray

### **Hazardous combustion products**

May form: nitrogen compounds

### **Precautions for fire-fighting**

Substance is an oxidizer that will cause moderate increase in the burning rate of combustible materials with which it comes into contact. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

SODIUM NITRATE  
83434

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

No data

### **Environmental precautions**

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

### **Methods for cleaning up**

Shovel material into containers. Thoroughly sweep area of spill to clean up any residual material. Sweep up material for disposal or recovery.

## **7. HANDLING AND STORAGE**

### **Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of potential exposure. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

### **Storage**

No data

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure Guidelines**

#### **General advice**

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

SODIUM NITRATE  
83434

**Exposure controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

**Eye protection**

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

**Skin and body protection**

Wear resistant gloves (consult your safety equipment supplier).  
Wear normal work clothing covering arms and legs.

**Respiratory protection**

If needed, use a NIOSH-approved dust respirator. (Ask your safety representative.)

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	solid
<b>Form</b>	pellets
<b>Colour</b>	white
<b>Odour</b>	Faint odor
<b>Boiling point/boiling range</b>	380.00 °C / 716 °F
<b>Melting point/range</b>	586 °F / 308 °C
<b>pH</b>	8.5
<b>Flash point</b>	No data
<b>Evaporation rate</b>	No data
<b>Explosion limits</b>	No data
<b>Vapour pressure</b>	2.00 hPa
<b>Vapour density</b>	No data
<b>Density</b>	2.257 g/cm <sup>3</sup> @ 68 °F / 20 °C
<b>Solubility</b>	soluble in water
<b>Partition coefficient: n-octanol/water</b>	No data
<b>log Pow</b>	no data available

SODIUM NITRATE  
83434

**Autoignition temperature** 912 °F / 489 °C

## 10. STABILITY AND REACTIVITY

### Stability

Stable.

### Conditions to avoid

Avoid contact with:

### Incompatible products

Avoid contact with:, Combustible material, Organic materials, Reducing agents, Strong acids

### Hazardous decomposition products

nitrogen compounds, nitrogen oxides (NOx)

### Hazardous reactions

Product will not undergo hazardous polymerization.

### Thermal decomposition

No data

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity

SODIUM NITRATE	LD 50 Rat: 3,236 mg/kg
----------------	------------------------

### Acute inhalation toxicity

SODIUM NITRATE	no data available
----------------	-------------------

### Acute dermal toxicity

SODIUM NITRATE	no data available
----------------	-------------------

## 12. ECOLOGICAL INFORMATION

### Aquatic toxicity

#### Acute and Prolonged Toxicity to Fish

SODIUM NITRATE  
83434

No data  
**Acute Toxicity to Aquatic Invertebrates**  
No data

**Environmental fate and pathways**  
No data

### **13. DISPOSAL CONSIDERATIONS**

#### **Waste disposal methods**

Collect and add to large container of water. Stir in slight excess of soda ash. Let stand 24 hours. Decant into another container, neutralize with 6M-hydrochloric acid. Flush down drain with large excess of water in accordance with applicable regulations. Deposit sludge in a landfill in accordance with local, state and federal regulations. Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

### **14. TRANSPORT INFORMATION**

#### **IMDG:**

UN1498, SODIUM NITRATE 5.1, III

#### **IATA\_P:**

UN1498, Sodium nitrate 5.1, III

#### **IATA\_C:**

UN1498, Sodium nitrate 5.1, III

#### **CFR\_ROAD:**

UN1498, Sodium nitrate 5.1, III

#### **CFR\_RAIL:**

UN1498, Sodium nitrate 5.1, III

#### **CFR\_INWTR:**

UN1498, Sodium nitrate 5.1, III

#### **IMDG\_ROAD:**

UN1498, SODIUM NITRATE 5.1, III

#### **IMDG\_RAIL:**

UN1498, SODIUM NITRATE 5.1, III

SODIUM NITRATE  
83434

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**15. REGULATORY INFORMATION**

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**SARA 313 Component(s)**

SODIUM NITRATE                      7631-99-4                      100%

**Reportable quantity - Components**

SODIUM NITRATE                      7631-99-4                      none

	<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Other</b>
<b>HMIS</b>				No data
<b>NFPA</b>	1	0	0	OX

**16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).