

#### Common Name: CALCIUM NITRATE

Synonyms: Calcium Saltpeter; Lime Nitrate; Nitrocalcite CAS No: 10124-37-5 Molecular Formula: Ca(NO<sub>3</sub>)<sub>2</sub> RTK Substance No: 0324

Description: White to gray, odorless, crystalline or granular solid

# HAZARD DATA Profighting

Hazard Rating	Firefighting	Reactivity
2 - Health	<b>Calcium Nitrate</b> is not combustible, but it is a STRONG OXIDIZER that enhances the	Mixtures of <b>Calcium Nitrate</b> with ALKYL ESTERS; PHOSPHORUS; TIN CHLORIDE; and REDUCING
0 - Fire	combustion of other substances.	AGENTS (such as LITHIUM, SODIUM, ALUMINUM and
3 - Reactivity	Use water in flooding quantities or extinguish fire	their HYDRIDES) may result in fires and explosions.
DOT# UNLAFA	using an agent suitable for type of surrounding fire.	Calcium Nitrate reacts with WATER to release heat.
DOT#: UN 1454	POISONOUS GASES ARE PRODUCED IN FIRE,	Calcium Nitrate is not compatible with STRONG ACIDS
ERG Guide #: 140	including Nitrogen Oxides.	(such as HYDROCHLORIC, SULFURIC and NITRIC); METAL SALTS; and COMBUSTIBLES.
Hazard Class: 5.1	Use water spray to keep fire-exposed containers cool.	
(Oxidizer)	<b>Calcium Nitrate</b> may ignite combustibles (wood, paper and oil).	

#### SPILL/LEAKS

#### **Isolation Distance:**

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Collect powdered material in the most convenient and safe manner and place into sealed containers for disposal.

DO NOT wash into sewer.

## **EXPOSURE LIMITS**

The Protective Action Criteria values are:

PAC-1 = 0.91 mg/m<sup>3</sup>

 $PAC-2 = 10 \text{ mg/m}^3$ 

 $PAC-3 = 60 \text{ mg/m}^3$ 

Eyes:	Irritation and burns
Skin:	Irritation and burns
Inhalation:	Nose, throat and lung irritation with coughing, wheezing and shortness of breath
	Headache, dizziness, nausea and vomiting

## **PHYSICAL PROPERTIES**

Odor Threshold:	Odorless
Flash Point:	Nonflammable
Specific Gravity:	2.5 (water = 1)
Water Solubility:	Soluble
Melting Point:	1,042°F (561°C)
Molecular Weight:	164.1

## **PROTECTIVE EQUIPMENT**

Gloves:	Nitrile and Natural Rubber
Coveralls:	DuPont Tyvek®
Respirator:	>0.91 mg/m <sup>3</sup> - SCBA

#### FIRST AID AND DECONTAMINATION

**Remove** the person from exposure.

**Flush** eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

**Quickly** remove contaminated clothing and wash contaminated skin with large amounts of water.

**Begin** artificial respiration if breathing has stopped and CPR if necessary. **Transfer** promptly to a medical facility.