

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

### 1.1 Product Identifier

Product Form : Transparent clear liquid  
Product Name : Calcium Nitrate  
Trade Name : CalNite 55  
CAS No. : 10124-37-5  
Common Name/Synonym : Nitrocalcite  
Formula :  $\text{Ca}(\text{NO}_3)_2$

### 1.2 Intended Use of the Product

Used as coagulant of natural and synthetic rubber lattices.

### 1.3. Details of the Responsible Party

#### Manufacturer

Name and address : CCM Chemicals Sdn Bhd (159498-A)  
16<sup>th</sup> & 17<sup>th</sup> Floor, Menara NAZA TTDI  
No 11, Jalan Judo 13/45, Section 13  
40100 Shah Alam, Selangor Malaysia.  
Telephone No. : 03-5561 6888  
Fax No. : 03-5516 6898

### 1.4. Emergency Telephone Number

Emergency Number : 1-800-88-8565 (Toll free)

## SECTION 2: HAZARD IDENTIFICATION

### 2.1. Classification of the Substance or Mixture.

GHS Classification : Acute Oral Toxicity (Category 4)  
Skin Corrosion/Irritation (Category 3)  
Eye Irritation (Category 2A)

### 2.2. Label Elements

Hazard Pictograms/Symbols :



GHS07

Signal Word : Warning  
Hazard Statements : H302 - Harmful if swallowed  
H316 - Causes mild skin irritation  
H319 - Causes serious eye irritation

### Precautionary Statements

Prevention :P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response : P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P330 - Rinse mouth.  
 P332 + P313 - If skin irritation occurs: Get medical advice/attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical advice/attention.

Storage : No storage statements

Disposal : P501- Dispose of contents/container to comply with appropriate federal, state and local regulations.

### **2.3. Other Hazards**

Classification not possible.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENT

Chemical Identity	Common Name	CAS No	% (w/w)	Exposure Limit, ppm	Hazard Codes
Calcium Nitrate	Nitrocalcite	10124-37-5	54%-56%	TLV (Not Classified)	H302, H316, H319

## SECTION 4: FIRST AID MEASURES

### **4.1. Description of First Aid Measures**

**If inhaled:** Remove to fresh air. If nitrous fumes have been inhaled, rest the patient in fresh air and keep warm. Administer oxygen if necessary.

**In case of eye contact:** Promptly wash eyes with lots of water while lifting the eye lids. Continue to rise for water at least 15 minutes and get medical attention.

**In case of skin contact:** Remove affected person from source of contamination. Promptly remove clothing if soaked through and flush skin with water.

**If ingested:** Do not feed anything through mouth while victim still unconscious. If swallowed: do NOT induce vomiting. Promptly let affected drink lots of water to dilute the swallowed chemical.

### **4.2 Most Important Symptoms and Effect Both Acute and Delayed**

**Inhalation:** Cough. Sore throat.

**Eye contact:** Redness.

**Skin contact:** Not applicable

**Ingestion:** Abdominal pain. Blue lips, fingernails and skin. Confusion. Convulsions. Dizziness. Headache. Nausea. Unconsciousness.

### **5.1 Indication of Any Immediate Medical Attention and Special Treatment Needed**

If concerned or irritation persists, get medical attention/advice immediately.

## SECTION 5: FIRE FIGHTING MEASURES

### **5.1. Extinguishing Media**

**Flammability of the product:** Not combustible but enhances combustion of other substances. In case of fire in the surroundings, use appropriate extinguishing media.

**Suitable extinguishing media:** Water spray

### **5.2 Specific Hazards Arising from the Chemical**

Severe explosion hazard when vapours are exposed to flames. Gives off irritating or toxic fumes (or gases) in a fire. May decompose very toxic gases/vapour/fumes of nitrous gases (Nox) oxides of nitrogen.

### **5.3 Special Protective Equipment and Precautions for Fire Fighters**

Fire fighters should use water to keep fire exposed containers cool and disperse vapour. Move container from fire area if it can be done without risk. Self-contained breathing apparatus should be used for firefighting.

## SECTION 6: ACCIDENTAL RELEASE MEASURE

### **6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal precautions for spills or leaks:** Small quantities should be washed away with large quantities of water. Do not use fire extinguisher. Large quantities should be absorbed in sand or similar absorbent materials for safe disposal. Personnel should use rubber gloves and wear goggles for eye protection.

### **6.2. Environmental Precautions**

Classification not possible.

### **6.3. Methods and Material for Containment and Cleaning**

Disposed according to local waste disposal act for chemical substances.

## SECTION 7: HANDLING AND STORAGE

### **7.1 Precautions for Safe Handling**

Wash hand thoroughly after handling, before eating or smoking. Contaminated clothing to be placed in closed container until disposal or decontamination.

### **7.2 Conditions for Safe Storage, Including Any Incompatibilities**

**Storage conditions:** Keep away from flammable and combustion materials. Keep in cool and closed containers.

**Incompatible materials:** Combustible substances, reducing agents, heat sources and naked flames.

## SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

### **8.1. Control Parameters**

**Permissible exposure limit:** Not classified.

**Occupational exposure limit (TLV):** Classification not possible.

### **8.2 Appropriate Engineering Controls**

Exposure should be kept as low as is reasonably practicable.

### **8.3 Individual Protection Measures**

**Respiration protection:** Respiratory protection may be required when combustion occur.

**Eyes protection:** Wear chemical safety goggles where eye exposure is reasonably probable.

**Hand protection:** Wear suitable impervious protective gloves.

**Ventilation:** Provide adequate general and exhaust ventilation

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### **9.1 Information on Basic Physical and Chemical Properties**

Appearance	:Liquid, Colourless
Odour	:Odourless
Odour threshold	:Not classified
pH-value (30°C)	:7.0-8.5
Boiling point	:120°C
Flash point	:Not applicable
Evaporation rate	:Not applicable
Flammability (solid,gas)	:Not applicable
Upper/lower flammability or explosive limits	:Not applicable
Vapour pressure (mmHg) deg°C	:Classification not possible

Vapour density	:Classification not possible
Relative density (Water =1)	:1.50-1.55
Water Solubility	:Soluble in water, alcohol
Partition coefficient, n-octanol/water	:Not applicable
Auto-ignition Temperature	:Not applicable
Decomposition temperature	:Not applicable
Viscosity	:Not applicable

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 **Reactivity**

Calcium nitrate is a strong oxidant. It reacts with combustible and reducing materials. Present risk of fire and explosion on contact with combustible substances.

### 10.2 **Chemical Stability**

Normally stable.

### 10.3 **Possibility of Hazardous Reactions**

Risk of fire and explosion on contact with combustible substances.

### 10.4 **Conditions to Avoid**

Heat, flame.

### 10.5 **Incompatible Materials**

Sulphuric Acid, strong reducing agents, flammable/combustion material.

### 10.6. **Hazardous Decomposition Products**

May decompose very toxic gases/vapour/fumes of nitrous gases (Nox) oxides of nitrogen in a fire.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 **Information on the Likely Routes of Exposure (Inhalation, Ingestion, Skin, and Eye Contact)**

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

### 11.2 **Symptoms Related to the Physical, Chemical and Toxicological Characteristics**

**Inhalation:** A nuisance-causing concentration of airborne particles can be reached quickly when dispersed.

**Ingestion:** Swallowing may cause nausea, vomiting, stomach distress.

**Skin Contact:** May cause slight irritation

**Eye Contact:** May cause moderate irritation

**Carcinogenicity:** This substance has no evidence of carcinogenic properties.

### 11.3 **Delayed, Immediate, and Chronic Effects from Short and Long Term Exposure**

**Effects of short-term exposure:** May cause mechanical irritation to the eyes and respiratory tract. Ingestion could cause effects on the blood. This may result in formation of methaemoglobin. The effects may be delayed. Medical observation is indicated.

**Effects of long-term exposure:** Classification not possible.

**Acute and chronic health hazard:** Anaemia, methaemoglobin formation, nephritis.

### 11.4 **Numerical Measures of Toxicity**

**Oral:** Rat LD<sub>50</sub> = 302 mg/kg

**Other data:** Classification not possible

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	: Avoid contaminating waterways
Persistence and degradability	: Classification not possible
Bioaccumulative potential	: Classification not possible
Mobility in soil	: Classification not possible
Aquatic toxicity	: Fish LC <sub>50</sub> = 2400 mg/L (96 hours)
Other adverse effects	: Avoid release to the environment

## SECTION 13: DISPOSAL INFORMATION

**Safe handling:** Wash hand thoroughly after handling. Contaminated clothing to be placed in closed container until disposal or decontamination.

**Disposal methods:** Contact supplier or a licensed contractor for detail recommendations. Follow applicable federal, state, and local regulations.

## SECTION 14: TRANSPORTATION INFORMATION

UN number : 1454  
UN proper shipping name : CALCIUM NITRATE  
Transport hazard class(es) : Not classified  
Packing group, if applicable :  
Environmental hazards : Classification not possible  
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code) : Not applicable  
Special precautions : Classification not possible

## SECTION 15: REGULATORY INFORMATION

This Safety Data Sheet complies with the Malaysian Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

## SECTION 16: OTHER INFORMATION

This data sheet is informative only. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date indicated.

However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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