

# MATERIAL SAFETY DATA SHEET

Version1.3

Date of last alteration:05/24/2025

## 1. Chemical Product and Company Identification

Product Name : Calcium Formate  
Other name : Formic acid, calcium salt, calcium diformate, Feed Additive  
Recommended Uses : Building industry, Concrete cure accelerator, Construction material  
Manufacturer : Shandong Charing Industry Co.,Ltd  
Address : ROOM 1402,ZONE 17 AND 18, NO.19BUILDING, LUNENG  
LINGXIUCHENG, JINAN CITY, SHANDONG PROVINCE,CHINA  
Post Code : 250000  
TEL : +86-131-7667-0070  
E-mail : sdcharing@sdcharing.com

## 2. Hazard identification

### 2.1 Classification of the substance or mixture

Serious eye damage, Category 1

### 2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word : Danger

Hazard statement(s) : H318 Causes serious eye damage

Precautionary statement(s)

Prevention : P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response : P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/...

Storage : none

Disposal : none

### 2.3 Other hazards which do not result in classification

none

## 3. Composition, Information on Ingredients

Ingredient

Main ingredient	Composition	CAS NO.
Calcium Formate	≥98%	544-17-2

## 4. First Aid Measures

### 4.1 Description of first aid measures

**General information:**

Under ordinary workplace conditions : No special measures required.

**After inhalation:**

Provide fresh air.

**After contact with the skin:**

Wash with plenty of water or water and soap.

**After contact with the eyes:**

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

**MATERIAL SAFETY DATA SHEET**

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**5. Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media:**

Water spray, water mist , extinguishing powder , foam , carbon dioxide .

**Extinguishing media which must not be used for safety reasons** : water jet.**5.2 Advice for firefighters****Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air.

**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Do not breathe dust.

**6.2 Environmental precautions**

Cover any spilled material in accordance with regulations to prevent dispersal by wind.

**6.3 Methods and material for containment and cleaning up**

Take up mechanically and dispose of according to local/state/federal regulations.

**Further information:**

Eliminate all sources of ignition. Observe notes under 7.

**6.4 Reference to other sections****Relevant information in other sections have to be considered. This applies in particular for information given on personal protective equipment (8.) and on disposal (13.).****7. Handling and storage****Precautions for safe handling**

Direct sunshine and raining, moisture must be avoided.

**Storage:**

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: strong oxidizing agents and foods.

**8. Exposure controls/personal protection****8.1 Control parameters****Occupational Exposure limit values**

no data available

**Biological limit values**

no data available

**8.2 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

**8.3 Individual protection measures, such as personal protective equipment (PPE)****Eye/face protection**

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves.

Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in protective

# MATERIAL SAFETY DATA SHEET

Version1.3

Date of last alteration:05/24/2025

gloves accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

## Respiratory protection

Wear dust mask when handling large quantities.

## Thermal hazards

no data available

## 9. Physical and chemical properties

Physical state	: white to almost white fine crystalline powder
Colour	: Orthorhombic crystals or crystalline powder
Odour	: Slight acetic acid-like odor
Melting point/ freezing point	: >300°C
Boiling point or initial boiling point and boiling range	: 100.6oC at 760mmHg
Flammability	: Not combustible
Lower and upper explosion limit / flammability limit	: No data available
Flash point	: 29.9°C
Auto-ignition temperature	: 475°C
Decomposition temperature	: >800°C
pH	: No data available
Kinematic viscosity	: No data available
Solubility	: In water: SOLUBLE
Partition coefficient n-octanol/water(log value)	: -2.47
Vapour pressure	: No data available
Density and/or relative density	: 2.02 g/cm3
Relative vapour density	: No data available
Particle characteristics	: No data available

## 10. Stability and reactivity

### 10.1 Chemical stability

Stable under normal temperatures and pressures

### 10.2 Conditions to avoid

Incompatible materials, dust generation, excess heat, strong oxidants.

### 10.3 Hazardous decomposition products

Carbon Monoxide, irritating and toxic fumes and gases, carbon dioxide

## 11. Toxicological information

11.1 Epidemiology	: No information available
11.2 Teratogenicity	: No information available
11.3 Reproductive Effects	: No information available
11.4 Neurotoxicity	: No information available
11.5 Mutagenicity	: No information available
11.6 Other studies	: No data available

## 12. Ecological Information

No information available.

## MATERIAL SAFETY DATA SHEET

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### 13. Disposal considerations

Discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### 14. Transport information

#### 14.1-4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

##### Road ADR:

Valuation : Not regulated for transport by IMDG/IMO

##### Railway RID:

Valuation : Not regulated for transport by IMDG/IMO

##### Transport by sea IMDG-Code:

Valuation : Not regulated for transport by IMDG/IMO

##### Air transport ICAO-TI/IATA-DGR:

Valuation According to IMDG/IMO, it's not dangerous cargo : Not regulated for transport by IMDG/IMO

### 15. Regulatory information

Reference to the local, national, US, EU and international regulation

TSCA : US

### 16. Other information

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