

# XI'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet Calcium Sulfide

## 1. Product and Company Identification

Trade Name: Calcium Sulfide

Chemical Formula: CaS

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

#### 2. Hazards Identification

Signal Word: Danger







Hazard Statements:

H228: Flammable solid

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H410: Very toxic to aquatic life with long lasting effects

**Precautionary Statements:** 

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/light/equipment

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P264: Wash face, hands, and any exposed skin thoroughly after

handling

P271: Use only outdoors or in a well-ventilated area

P273: Avoid release to the environment

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

P302+P352: IF ON SKIN: Wash with soap and water

P304+P340+P312: IF INHALED: Remove victim to fresh air and keep

at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing

P332+P313: If skin irritation occurs: Get medical advice/attention

P337+P313: If eye irritation persists get medical advice/attention

P362: Take off contaminated clothing and wash before reuse

P370+P378: In case of fire: Use suitable extinguishing media for

extinction

P391: Collect spillage

P403+P233: Store in a well-ventilated place. Keep container tightly

closed

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 1 Physical: 0

3. Composition

Chemical Family: Inorganic Material

Additional Names: N/A

Calcium Sulfide (CaS):

Eyes:

Percentage: 100 wt% CAS #: 20548-54-3 EC #: 243-873-5

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Get

medical attention if symptoms occur.

Ingestion: Give one to two glasses of water. Never induce vomiting or give

anything by mouth to an unconscious person. Get medical attention if

symptoms occur.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing. Get medical attention if symptoms occur. Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical

attention.

5. Firefighting Measures

Flammability: Flammable

Extinguishing Media: Use dry sand, dry powder, carbon dioxide, dry chemical or chemical

oam.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes. See section 10 for

decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from

materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air. Avoid dust formation and aerosols. Further processing

of material may result in formation of combustible dust.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color White

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Pungent

Water Solubility: Slightly soluble

Boiling Point:

Melting Point:

Flash Point:

Autoignition Temperature:

N/A

N/A

Density: 2.5 g/cc

Molecular weight: 72.14 g/mol

10. Reactivity

Stability: Air, Water, Heat Sensitive. Stable under recommended storage

conditions

Reacts With: Acids, Finely powdered metals, Lead, Lead oxides, Strong oxidizing

agents, Water

Incompatible Conditions: Excess heat. Keep away from sources of ignition. Exposure to air.

Exposure to moisture or water

Hazardous Decomposition Products: Calcium oxides, Sulphur oxides, Sulfides, Toxic gases

#### 11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation Skin: Causes skin irritation

Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

#### 12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A

Notes: Very toxic to aquatic life with long lasting effects.

### 13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

# 14. Transportation Data

Hazardous: Hazardous for transportation



Primary Hazard Class:

4.1 Flammable solids
Secondary Hazard Class:

6.1 Poisonous material

Packing Group: II UN Number: UN3179

Proper Shipping Name: Flammable solid, toxic, inorganic, n.o.s. (Calcium Sulfide)

15. Regulatory Information	
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Sec 302 Extremely Hazardous:NoSec 304 Reportable Quantities:N/ASec 313 Toxic Chemicals:No

#### 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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