



## Safety Data Sheet

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### Section 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Calcium sulfate,calcined

SDS No. : 1394E-2

Recommended use of the chemical and restrictions on use

Research and Development

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Chemical Safety Management Department

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

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### Section 2. Hazards identification

Classification of the substance or mixture

HEALTH HAZARDS

Specific target organ toxicity – single exposure: Category 3 (Respiratory tract irritation)

(Note) GHS classification without description: Not classified/Classification not possible

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements

H335 May cause respiratory irritation

Precautionary statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

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

Response

P319 Get medical help if you feel unwell.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage

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

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Specific danger/hazard

Health hazard

See "11. Toxicological Information".



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**Section 3. Composition/information on ingredients**

Substance/mixture:

Substance

Ingredient name	Content (%)	CAS RN	ENCS	Chemical formula
Calcium sulfate, 1/2-hydrate	≥95	10034-76-1	1-193	CaSO <sub>4</sub> •0.5H <sub>2</sub> O

Note : The figures shown above are not the specifications of the product.

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**Section 4. First aid measures**

Descriptions of first aid measures

General measures

Get medical help if you feel unwell.

IF INHALED

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical help if you feel unwell.

IF ON SKIN

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water or shower.

If skin irritation or rash occurs: Get medical help.

IF IN EYES

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical help.

IF SWALLOWED

Rinse mouth.

IF SWALLOWED: Get medical help if you feel unwell.

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**Section 5. Fire-fighting measures**

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

See "10.Stability and Reactivity".

Advice for firefighters

Special extinguishing method

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.



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**Section 6. Accidental release measures**

Personal precautions, protective equipment and emergency procedures

- Keep unauthorized personnel away.
- Ventilate area until material pick up is complete.
- Wear proper protective equipment.

Environmental precautions

- Prevent spills from entering sewers, watercourses, low areas or rivers. To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for containment and cleaning up

- Liquid: Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.
- Solid: Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

- Collect spillage.

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**Section 7. Handling and storage**

Precautions for safe handling

Engineering measures

(Measures to prevent operator exposure)

- Do not breathe dust/fume/gas/mist/vapors/spray.

(Measures to prevent fire and explosion)

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Local ventilation/general ventilation)

- Exhaust/ventilator should be available.

(Precautions)

- Avoid contact with skin.
- Avoid contact with eyes.

Advice on safe handling

- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands and contaminated parts thoroughly after handling.
- When using do not eat, drink or smoke.

Avoidance of contact

- See Section 10: Stability and Reactivity.

Conditions for safe storage, including any incompatibilities

Conditions for safe storage

- Keep container tightly closed.
- Store locked up. (P405)
- Store in a cool, dry place. Do not store in direct sunlight.
- Storage in accordance with local/national regulation.

Safe packaging material

- Use closed unbreakable containers.

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**Section 8. Exposure controls/personal protection**

Control parameters

Permissible concentration



Administrative Control Levels and Concentration standard value

Not established

Occupational exposure limit values

The Japan Society for Occupational Health

(Other inorganic and organic dust (third class dust ))

JSOH Respirable dust 2mg/m<sup>3</sup>, Total dust 8mg/m<sup>3</sup>

ACGIH

TWA: 10mg/m<sup>3</sup>(I) (Nasal symptoms)

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures, such as personal protective equipment

Recommend to use protective equipment in conformity with the standards.

Use appropriate protective equipment in accordance with local/national regulation.

Respiratory protection

Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge corresponding to type of gases when using a gas mask.

Hand protection

Wear impervious protective glove.

Eye/face protection

Wear eye/face protection. Wear safety goggles in cases gas is generated.

Skin and body protection

Wear protective clothing.

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## Section 9. Physical and Chemical Properties

Physical state: Powder

Color: White to grayish white

Odor: Odorless

Melting point/Freezing point data is not available.

Boiling point, initial boiling point, or boiling range data is not available.

Flammability data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Slightly soluble

Solubility in solvent data is not available.

Partition coefficient n-octanol/water data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

Other information

Other information is not available.



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**Section 10. Stability and Reactivity**

## Reactivity

Not available.

## Chemical stability

Stable under normal storage/handling conditions.

## Possibility of hazardous reactions

Not available.

## Conditions to avoid

Contact with fire source.

## Incompatible materials

Not available.

## Hazardous decomposition products

Sulfur oxides, Calcium oxide

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**Section 11. Toxicological Information**

## Information on toxicological effects

## Acute toxicity

## Acute toxicity (Oral)

[Data for components of the product]

[NITE-CHRIP]

rat LD50: > 5000 mg/kg (test substance: Calcium sulfate anhydrous) (a converted value equivalent to this substance: > 5331 mg/kg) (source: NITE)

Skin corrosion/irritation data is not available.

Serious eye damage/irritation data is not available.

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenic effects data is not available.

Reproductive toxicity data is not available.

## Specific target organ toxicity – single exposure

[Product]

Category 3, May cause respiratory irritation

[Data for components of the product]

[NITE-CHRIP]

Category 3 (Respiratory tract irritation) (source: NITE)

Specific target organ toxicity – repeated exposure data is not available.

Aspiration hazard data is not available.

## Information on other hazards

May cause lung disorders by massive inhalation of powdered substance.

–e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

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**Section 12. Ecological Information**

## Toxicity

Toxicity data is not available.

## Persistence and degradability

Persistence and degradability data is not available.

## Bioaccumulative potential



- Bioaccumulative potential data is not available.
- Mobility in soil
  - Mobility in soil data is not available.
- Other adverse effects
  - Ozone depleting chemical data is not available.

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**Section 13. Disposal considerations**

- Waste treatment methods
- Waste from residues
  - Dispose of contents/container as industrial waste. Accordance with local/national regulation.

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**Section 14. Transport Information**

- UNRTDG
  - UN number : Not regulated
- IMDG Code (International Maritime Dangerous Goods Regulations)
  - UN number : Not regulated
- IATA (Dangerous Goods Regulations)
  - UN number : Not regulated
- Environmental hazards
  - Marine pollutants (yes/no) : no
  - Environmentally hazardous substance/mixture (yes/no) : no

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**Section 15. Regulatory Information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - U.S. Toxic Substances Control Act (TSCA) Inventory
    - Chemicals listed in TSCA Inventory
      - Applicable
- Other regulatory information
  - Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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**Section 16. Other information**

- References and sources for data
  - Globally Harmonized System of classification and labelling of chemicals, UN
  - Recommendations on the TRANSPORT OF DANGEROUS GOODS 23rd edit., 2023 UN
  - IMDG Code, 2024 Edition (Incorporating Amendment 42-24)
  - IATA Dangerous Goods Regulations (67th Edition) 2026
  - 2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
  - 2026 TLVs and BEIs. (ACGIH)
  - JIS Z 7252 : 2025
  - JIS Z 7253 : 2025
  - Recommendation of occupational exposure limits (2024-2025) (JSOH)
  - Supplier's data/information
- General Disclaimer
  - © KISHIDA CHEMICAL CO., LTD.



Unauthorized translation or modification is prohibited.

Please provide SDS to customers for selling or transferring.

All chemicals have unknown hazard. Handle the product with care.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Data published in Japan (National Institute of Technology and Evaluation (NITE) Chemical Risk Information Platform (NITE-CHRIP), up to FY2024).