

Calcium sulfate dihydrate

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 10/28/2008 Revision date: 8/5/2020 SDS code: E3-02 Version: 06.1

Safety Data Sheet

1. Chemical product and company identification

Calcium sulfate dihydrate **Product name**

SDS code E3-02

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Emergency number 06-6910-7305

2. Hazards identification

GHS classification

Physical hazards Desensitized eplosives classification not possible

> No classification **Explosives** Flammable gases No classification No classification Aerosol Oxidizing gases No classification Gases under pressure No classification Flammable liquids No classification Flammable solids No classification

Self-reactive substances and

mixtures

No classification

Pyrophoric liquids No classification Pyrophoric solids No classification Self-heating substances and

mixtures

No classification

Substances and mixtures which in contact with water emit flammable

gases

No classification

No classification Oxidizing liquids

Oxidizing solids classification not possible

Organic peroxides No classification

Corrosive to metals classification not possible

Health hazards No classification Acute toxicity (oral)

> Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) No classification Acute toxicity (inhalation:vapors) No classification

Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation No classification

Serious eye damage/eye irritation classification not possible Respiratory sensitization classification not possible

Skin sensitization No classification

Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible

Specific target organ toxicity (single

exposure)

Category 3 (Respiratory tract irritation.)

classification not possible

Specific target organ toxicity

(repeated exposure)

Aspiration hazard classification not possible Revision date: 8/5/2020

Environmental hazards

ronmental Hazardous to the aquatic

environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic)

No classification

No classification

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)

Storage



CHOO

Signal word (GHS JP) : Warning

Hazard statements (GHS JP) : May cause respiratory irritation (H335)

Precautionary statements (GHS JP)

Prevention : Avoid breathing dust/fume/gas/mist/vapors/spray. (P261)

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

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

breathing (P304+P340)

Call a POISON CENTER or doctor if you feel unwell. (P312)

: Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

Store locked up. (P405)

Disposal : Dispose of contents/container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international

regulation. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture : Substance Synonyms : Gypsum

	Concentration or	Formula	Kanpo number		
Name	Concentration range		CSCL no	ISHL no	CAS RN
Calcium sulfate dihydrate	≧98.0%、≦100%	CaSO4·2H2O	(1)-193	-	10101-41-4

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are mass%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water.

Get immediate medical advice/attention.

First-aid measures after eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

Get immediate medical advice/attention.

First-aid measures after ingestion : Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media

Do not use a heavy water stream.

Hazardous decomposition products

in case of fire

In case of fire, product may produce irritative or toxic fumes/gases.

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Firefighting instructions : If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

olaces.

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Protection during firefighting : Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Before entering, ventilate the area.

Do not let unauthorized persons come close to the area.

Immediately place the leakage area in isolation, with taking proper

distances for all directions.

Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.

Environmental precautions

Environmental precautions : Avoid release to the environment.

Prevent entry to sewers and public waters.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Take care not to generate dust, sweep it up as much as possible, collect it

in an empty container that can be sealed, and move it to a safe place.

Wash out the spilled area with large amounts of water.

7. Handling and storage

Handling

Technical measures : Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions : Store locked up.

Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in

packaging/containers

Airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Cool and dark place

8. Exposure controls / Personal protection equipment

Calcium sulfate dihydrate	
Exposure limits (ACGIH)	TWA 10 mg/m3(I),STEL -
Appropriate engineering controls	: Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.
Protective equipment	
Respiratory protection	: Dustproof mask
Hand protection	: Protective gloves
Eye protection	: Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection	: Protective clothing, Protective boots, Protective apron

9. Physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder

Color : white

Odor No data available рΗ No data available Melting point No data available Freezing point No data available Boiling point No data available Flash point No data available No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Density No data available Relative gas density No data available

Solubility : Slightly soluble in water. Soluble in hydrochloric acid.

Partition coefficient n- : No data available

octanol/water (Log Pow)

Explosive limits (vol %) : No data available
Viscosity, kinematic : No data available
Particle characteristics : No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions. When heated to 100°C, it loses

some crystallization water and becomes 1/2 hydrate, and part becomes anhydrous (calcined gypsum). It becomes dihydrate again at room temperature, but when it is further heated, it is completely dehydrated and becomes anhydrous, and even if water is added, it does not return to

hydrate.

Possibility of hazardous reactions : No data available Conditions to avoid : Sunlight, Heat Incompatible materials : No data available

Hazardous decomposition : Sulfur oxides, Calcium oxide

products

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

Calcium sulfate dihydrate		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	No classification	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	classification not possible	
Respiratory sensitization	classification not possible	
Skin sensitization	No classification	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure	classification not possible	
Aspiration hazard	classification not possible	

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

Calcium sulfate dihydrate		
Hazardous to Aquatic Environment - Acute Hazard	No classification	
Hazardous to Aquatic Environment - Chronic Hazard	No classification	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	classification not possible	

13. Disposal considerations

Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and

packaging

Empty the packaging completely prior to disposal.

Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) : Not applicable Proper Shipping Name (IMDG) : Not applicable Packing group (IMDG) : Not applicable Transport hazard class(es) (IMDG) : Not applicable

Air transport(IATA)

UN-No. (IATA) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Packing group (IATA) : Not applicable
Transport hazard class(es) (IATA) : Not applicable

Marine pollutant : Not applicable

Regulations in Japan

Regulatory information by sea : Not applicable Regulatory information by air : Not applicable

Special transport precautions : When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Industrial Safety and Health Law : Not applicable Japanese Poisonous and : Not applicable

Deleterious Substances Control Law

Fire Service Law : Not applicable

Foreign Exchange and Foreign

Trade Control Act

: Export Trade Control Ordinance appendix 1-16

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

16. Other information

Data sources : Handbook of 17120 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2016 Emergency Response Guidebook (ERG 2016).

Other information : The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd.

This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety

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Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.