



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision Date 15-Feb-2021 Version 4.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product name	Calcium Sulfate
Product code	037-00937,031-00935

Manufacturer FUJIFILM Wako Pure Chemical Corporation

> 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

Fax: +81-6-6203-5964

Supplier FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

Emergency telephone number

Recommended uses and

restrictions on use

+81-6-6203-3741 / +81-3-3270-8571

Food additives

Section 2: HAZARDS IDENTIFICATION

GHS classification Classification of the substance or mixture Specific target organ toxicity (single exposure) Category 3 Respiratory tract irritation

Category 3

Pictograms



Signal word

Warning

Hazard statements

H335 - May cause respiratory irritation

Precautionary statements-(Prevention)

- · Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area

Precautionary statements-(Response)

- 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.

Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- · Store locked up.

Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C aS 0 4 •2 H 2 0

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Calcium Sulfate	98.0 - 105.0	172.17	1-193	公表	10101-41-4
Dihydrate					

Impurities and/or Additives : Not applicable

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

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

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available

Special protective actions for

fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

Storage conditions Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed.

Safe packaging material Incompatible substances

Polypropylene, Polyethylene No information available

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Calcium Sulfate Dihydrate	N/A	N/A	TWA: 10 mg/m³ inhalable
10101-41-4			particulate matter

Personal protective equipment

Respiratory protection Dust mask
Hand protection Protection gloves

Eye protection protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color white

Appearance crystals powder
Odor Odorless
Melting point/freezing point 100-150 °C
Boiling point, initial boiling point and boiling range No data available
Flammability No data available
Evaporation rate: No data available
Flammability (solid, gas): No data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
No data available
Auto-ignition temperature:
No data available
Decomposition temperature:
No data available
pH
No data available
Viscosity (coefficient of viscosity)
No data available

Dynamic viscosityNo data available

No data available

Solubilities water: slightly soluble. Ethanol: insoluble. acid, glycerol:

soluble.

No data available n-Octanol/water partition coefficient:(log Pow) Vapour pressure No data available 2.32

Specific Gravity / Relative density

Vapour density No data available Particle characteristics No data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity No data available

Chemical stability Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

No information available

Hazardous decomposition products

Sulfur oxides (SOx), Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
	Calcium Sulfate Dihvdrate	> 2000 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source	Acute toxicity -inhalation gas- source information
0.1.1.0.11.1.1		information	
Caronani Canato Emparato			Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Calcium Sulfate Dihydrate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
·	classification results.	classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Calcium Sulfate Dihydrate	Based on the NITE GHS classification results.	
Serious eve damage/ irritation		

Chemical Name	Serious eye damage/irritation source information
Calcium Sulfate Dihydrate	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Calcium Sulfate Dihydrate	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	geriii celi iliutagericity source ililorillation
Calcium Sulfate Dihydrate	Based on the NITE GHS classification results.
Carcinogenicity	

Chemical Name	Carcinogenicity source information
Calcium Sulfate Dihydrate	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Calcium Sulfate Dihydrate	Based on the NITE GHS classification results.	
STOT-single exposure		
Chemical Name	STOT -single exposure- source information	
Calcium Sulfate Dihydrate	Based on the NITE GHS classification results.	

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Calcium Sulfate Dihydrate	Based on the NITE GHS classification results.	
Aspiration hazard		

Chemical Name	Aspiration Hazard source information
Calcium Sulfate Dihydrate	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Calcium Sulfate Dihydrate	ErC50:Pseudokirchneriella	LC50: Oryzias latipes >100	EC50:Daphnia magna
	subcapitata >100mg/L 72h	mg/L 96h	>100mg/L 48h

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Calcium Sulfate Dihydrate	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

No information available Persistence and degradability Bioaccumulative potential No information available Mobility in soil No information available Hazard to the ozone layer No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID Not regulated

UN number

Proper shipping name: **UN classfication**

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number

Proper shipping name: **UN classfication**

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Not regulated

UN number

Proper shipping name: **UN classfication**

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS - TSCA -

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Not applicable
Not applicable

Substances Control Law

Industrial Safety and Health Act Not applicable Regulations for the carriage Not applicable

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable Pollutant Release and Transfer Not applicable Register Law

Export Trade Control Order Not applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

 $\label{eq:continuous} \mbox{Dictionary of Synthetic Oraganic Chemistry} \ , \mbox{SSOCJ}, \mbox{Koudansha Scientific Co.Ltd.}$

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet