

Sodium sulfate

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 6/25/2010 Revision date: 3/22/2023 SDS code: C5-07 Version: 06

Safety Data Sheet

1. Chemical product and company identification

Product name Sodium sulfate

SDS code C5-07

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Emergency number 06-6910-7305

Recommended use For research and experimental use only.

Do not use on a human body or for animal medicines, foods, household Restrictions on use

products, cosmetics, etc.

2. Hazards identification

GHS classification

Health hazards

Physical hazards **Explosives** No classification

> Flammable gases No classification Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Flammable liquids No classification Flammable solids No classification Self-reactive substances and No classification

mixtures

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

mixtures

Substances and mixtures which in contact with water emit flammable

gases

Oxidizing liquids

Oxidizing solids classification not possible

No classification

No classification

Organic peroxides No classification

Corrosive to metals classification not possible

Desensitized explosives No classification Acute toxicity (oral) No classification

Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) No classification

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

Skin corrosion/irritation No classification Serious eye damage/eye irritation Category 2B

Respiratory sensitization classification not possible

Skin sensitization No classification Germ cell mutagenicity No classification

Carcinogenicity classification not possible Reproductive toxicity classification not possible Specific target organ toxicity (single

exposure)

Category 1 (digestive tract)

Revision date: 3/22/2023 SDS code: C5-07 Version: 06

Specific target organ toxicity

(repeated exposure)

No classification

No classification

classification not possible

Aspiration hazard

Environmental hazards

Hazardous to the aquatic

No classification environment, short-term (acute)

Hazardous to the aquatic

environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)



Signal word (GHS JP) Danger

Hazard statements (GHS JP) Causes eye irritation (H320)

Causes damage to organs (digestive tract) (H370)

Precautionary statements (GHS JP)

Prevention Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270)

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

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

(P305+P351+P338)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage 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

Na	Concentration or Concentration range	Formula	Kanpo number		010 711
Name			CSCL no	ISHL no	CAS RN
Sodium sulfate	≧99.0% 、 ≦100%	Na2SO4	(1)-501	Existing Chemical Substance	7757-82-6

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, 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.

Revision date: 3/22/2023 SDS code: C5-07 Version: 06

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.

Fire hazard

This product is unburnable.

Firefighting instructions

Hazardous decomposition products

in case of fire

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

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

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

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.

Revision date: 3/22/2023 SDS code: C5-07 Version: 06

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 : Crystals ~ Crystalline powder

Color : colorless ~ white

Odor : Odorless

pH : No data available

Melting point : 884 °C

Freezing point No data available No data available Boiling point Flash point No data available No data available Auto-ignition temperature Decomposition temperature No data available No data available Flammability (solid, gas) Vapor pressure No data available Relative density No data available Density 1.46 g/cm³

Relative gas density : No data available

Solubility : Easily soluble in water. Soluble in glycerol. Insoluble in alcohol.

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. Hygroscopicity.

Possibility of hazardous reactions : When heated, it may decompose and produce sulfur oxides. Reacts with

strong acids, strong oxidizing agents, aluminium and magnesium.

Conditions to avoid : Sunlight, moisture, heat. Contact with strong acids, strong oxidizing agents,

aluminium and magnesium.

Incompatible materials : Strong acids, Strong oxidizing agents, Aluminium, Magnesium

Hazardous decomposition : Sulfur oxides, Sodium oxides

products

11. Toxicological information

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

Sodium sulfate		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	classification not possible	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	Category 2B	
Respiratory sensitization	classification not possible	
Skin sensitization	No classification	
Germ cell mutagenicity	No classification	
Carcinogenicity	classification not possible	

Revision date: 3/22/2023 SDS code: C5-07 Version: 06

Sodium sulfate		
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 1	
STOT-repeated exposure	No classification	
Aspiration hazard	classification not possible	

12. Ecological information

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

Sodium sulfate		
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 Waterworks Law Export Trade Control Ordinance appendix 1-16

: Hazardous Substances (Act Article 4 paragraph 2), Standard for

Water Quality (Ministry Order No.101 of 2003)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

Revision date: 3/22/2023 SDS code: C5-07 Version: 06

16. Other information

Data sources

Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE).

2020 Emergency Response Guidebook (ERG 2020).

Other information

The SDS is copyrighted material of Havashi 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 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.