

Potassium oxalate monohydrate

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 3/17/2010 Revision date: 5/15/2020 SDS code: C1-07 Version: 06.1

Safety Data Sheet

1. Chemical product and company identification

Product name Potassium oxalate monohydrate

SDS code C1-07

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 classification not possible

Self-reactive substances and

mixtures

No classification

Pyrophoric liquids No classification

Pyrophoric solids classification not possible Self-heating substances and classification not possible

mixtures

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 Acute toxicity (oral) Category 4

> Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) No classification

Acute toxicity (inhalation:vapours) No classification Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation classification not possible Serious eye damage/eye irritation classification not possible Respiratory sensitization classification not possible Skin sensitization classification not possible Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible

Specific target organ toxicity (single

exposure)

classification not possible classification not possible

Specific target organ toxicity

(repeated exposure)

Aspiration hazard classification not possible Revision date: 5/15/2020 SDS code: C1-07 Version: 06.1

Environmental hazards

Aquatic acute

classification not possible

iazaius

Aquatic chronic

classification not possible

Hazardous to the ozone layer

classification not possible

Hazard pictograms (GHS JP)



311307

Signal word (GHS JP) : Warning

Hazard statements (GHS JP) : Harmful if swallowed (H302)

Precautionary statements (GHS JP)

Prevention : Wash hands, forearms and face thoroughly after handling. (P264)

Do not eat, drink or smoke when using this product. (P270)

Response : IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

(P301+P312)

Rinse mouth. (P330)

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

	Concentration or Concentration range	Formula	Kanpo number		040 511
Name			CSCL no	ISHL no	CAS RN
Potassium oxalate monohydrate	≥99.0%, ≤100%	(COOK)2 · H2O	(2)-922	Existing Chemical Substance	6487-48-5

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

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

Explosion hazard

: May induce explosion of containers by heating.

Hazardous decomposition products

in case of fire

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

Revision date: 5/15/2020 SDS code: C1-07 Version: 06.1

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

places.

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

surrounding equipment, etc. to cool.

Avoid (reject) fire-fighting water to enter environment.

Even after extinguishing fire, thoroughly cool containers by using plenty of

water.

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.

Protective equipment

Respiratory protection : Dustproof mask
Hand protection : Protective gloves

Revision date: 5/15/2020 SDS code: C1-07 Version: 06.1

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

: Protective clothing, Protective boots, Protective apron Skin and body protection

9. Physical and chemical properties

Physical state Solid

Appearance Crystals \sim Crystalline powder

Color colorless white

Odor Odorless

рΗ 7.0 - 8.5 (5% aqueous solution)

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

2.13 g/cm³ Specific gravity / density

Relative gas density No data available

Easily soluble in water. Sparingly soluble in ethanol. Solubility

No data available

Partition coefficient n-

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. Hygroscopic.

Possibility of hazardous reactions React with strong oxidizing agent.

Sunlight, moisture, heat. Contact with strong oxidizing agent. Conditions to avoid

Incompatible materials Strong oxidizing agent Hazardous decomposition Potassium oxide

products

11. Toxicological information

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

Potassium oxalate monohydrate		
Acute toxicity (oral)	Category 4	
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	classification not possible	
Serious eye damage/irritation	classification not possible	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	classification not possible	
STOT-repeated exposure	classification not possible	
Aspiration hazard	classification not possible	

Revision date: 5/15/2020

SDS code: C1-07 Version: 06.1

12. Ecological information

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

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

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.

Empty the packaging completely prior to disposal. Contaminated container and

packaging

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) 2811

Proper Shipping Name (IMDG) TOXIC SOLID, ORGANIC, N.O.S.

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 6.1 Hazard labels (IMDG) 6.1 Class (IMDG) 6.1 Division (IMDG) 6.1 Special provision (IMDG) 223, 274 Packing instructions (IMDG) P002 IBC packing instructions (IMDG) IBC08 IBC special provisions (IMDG) В3 Tank instructions (IMDG) T1 Tank special provisions (IMDG) **TP33**

Stowage category (IMDG)

Properties and observations (IMDG) Toxic if swallowed, by skin contact or by inhalation.

MFAG-No 154

Air transport(IATA)

UN-No. (IATA) 2811

Proper Shipping Name (IATA) Toxic solid, organic, n.o.s.

Ш Packing group (IATA) Transport hazard class(es) (IATA) 6.1 Hazard labels (IATA) 6.1 Class (IATA) 6.1 Division (IATA) 6.1 PCA Excepted quantities (IATA) E1 PCA Limited quantities (IATA) Y645 PCA limited quantity max net 10kg

quantity (IATA)

PCA packing instructions (IATA) 670 PCA max net quantity (IATA) 100kg CAO packing instructions (IATA) 677 CAO max net quantity (IATA) 200kg Special provision (IATA) A3, A5 ERG code (IATA) 6L

Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Revision date: 5/15/2020 SDS code: C1-07 Version: 06.1

Regulatory information by air

MFAG-No

Special transport precautions

Conform to the provisions of the Civil Aeronautics Law.

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

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

Deleterious Substances (LawArt.2, Attached Table 2, Designating

Order Art.2)

Salts of oxalic acid and preparations containing it. (except for preparations which contain 10% or less of them as oxalate.)

Fire Service Law

Foreign Exchange and Foreign

Trade Control Act

Ship Safety Act

Export Trade Control Ordinance appendix 1-16

Toxic and infectious substances/Toxic substances (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods

Regulations)

Civil Aeronautics Law Toxic and infectious substances/Toxic substances (Hazardous

materials notice Appended Table 1 Article 194 of the Enforcement

Regulations)

Port Regulation Law Toxic and infectious substances/Toxic substances (Article 21,

Paragraph 2 of Law, Article 12 rule, notice attached table that defines

the type of dangerous goods)

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).

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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.