

Ammonium oxalate monohydrate

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 5/18/2011 Revision date: 4/28/2020 Product code: E2-07 Version: 04.1

Safety Data Sheet

1. Chemical product and company identification

Ammonium oxalate monohydrate Trade name

Product code F2-07

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Responsible department : Planning Group, Reagent & Chemical Product Department

Telephone: 06-6910-7305

E-mail: shiyaku_kikaku@hpc-j.co.jp

URL: http://www.hpc-j.co.jp/

Emergency number 06-6910-7305

2. Hazards identification

GHS classification

Health hazards

Physical hazards Desensitized eplosives classification not possible

> No classification **Explosives** Flammable gases No classification Aerosol No classification 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

No classification

Substances and mixtures which in contact with water emit flammable

gases

No classification Oxidizing liquids

Oxidizing solids classification not possible

Organic peroxides No classification

Corrosive to metals classification not possible Acute toxicity (oral) classification not possible Acute toxicity (dermal) classification not possible

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

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

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A

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)

Specific target organ toxicity (single

exposure)

Category 3 (Respiratory tract irritation.)

Category 2 (kidneys, central nervous system)

Specific target organ toxicity

(repeated exposure)

Category 2 (kidneys)

Aspiration hazard

classification not possible classification not possible

Environmental hazards

Aquatic acute

Aquatic chronic classification not possible Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS07

GHS08

Signal word (GHS JP) : Warning

Hazard statements (GHS JP) : Causes skin irritation (H315)

Causes serious eye irritation (H319) May cause respiratory irritation (H335)

May cause damage to organs (kidneys, central nervous system) (H371) May cause damage to organs (kidneys) through prolonged or repeated exposure (H373)

6.

Precautionary statements (GHS JP)

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

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

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

(P280)

Response : IF ON SKIN: Wash with plenty of water. (P302+P352)

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

breathing (P304+P340)

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)

Get medical advice/attention if you feel unwell. (P314)

If skin irritation occurs: Get medical advice/attention. (P332+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)

Storage : 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

	Concentration or Concentration range	Formula	Kanpo number		040 511
Name			CSCL no	ISHL no	CAS RN
Ammonium oxalate monohydrate	≧99.0%, ≦100%	C2H8N2O4 · H2O	(1)-391,(2)- 844	2-(4)-250	6009-70-7

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

Firefighting instructions

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

places.

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.

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 \sim Crystalline powder

Color : white Odor : Odorless

pH : 6-7 (50g/L, 25°C) Melting point : 133 °C (Decomposition)

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

Specific gravity / density : 1.50 g/cm³

Relative gas density : No data available
Solubility : No data available
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 information available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : Reacts with strong oxidizing agent.

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

Incompatible materials : Strong oxidizing agent Hazardous decomposition : Ammonia, Nitrogen oxide

products

11. Toxicological information

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

Ammonium oxalate monohydrate		
Acute toxicity (oral)	classification not possible	
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	

Ammonium oxalate monohydrate		
Skin corrosion/irritation	Category 2	
Serious eye damage/irritation	Category 2A	
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	Category 2 Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure	Category 2	
Aspiration hazard	classification not possible	

12. Ecological information

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

Ammonium 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.

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

Deleterious Substances Control Law

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.)

Water Pollution Prevention Law

Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinance

Designating Wastewater Standards Art.1)

Fire Service Law

Foreign Exchange and Foreign

Trade Control Act

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

Export Trade Control Ordinance appendix 1-16

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 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.