



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 11-Sep-2024

Revision Number 2.08

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Hydroxylammonium Chloride
Product Code	089-03395,087-03391

Supplier FUJIFILM Wako Pure Chemical Corporation

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Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571

Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - OralCategory 3Skin corrosion/irritationCategory 2Skin sensitizationCategory 1Acute aquatic toxicityCategory 1Chronic aquatic toxicityCategory 1

Pictograms





Signal word

Danger

Hazard statements

H315 - Causes skin irritation

H301 - Toxic if swallowed

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace
- Avoid release to the environment

Precautionary statements-(Response)

- IF ON SKIN: Wash with plenty of soap and water
- Take off contaminated clothing and wash before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Collect spillage

Precautionary statements-(Storage)

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 HONH3CI

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Hydroxylammonium	97.0	69.49	(1)-375	*	5470-11-1
chloride					

Note on ISHL No.: * in the table means announced chemical substances.

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

Water spray (fog), Foam, Sand

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

Do not give shock. Avoid contact with strong bases. 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

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

Storage

Safe storage conditions

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

Keep container tightly closed. Store locked up.

Safe packaging material Polypropylene, Polyethylene

Incompatible substances Strong bases

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 This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color white

Appearance crystals - crystalline powder

Odor Pungent odor 151 °C

Melting point/freezing point

Boiling point, initial boiling point and boiling range no data available no data available **Flammability Evaporation rate:** no data available Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

no data available Upper: no data available Lower: no data available Flash point **Auto-ignition temperature:** no data available **Decomposition temperature:** no data available 2.5 - 3.5 (50g/L, 25°C)

Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available

Solubilities water: Very soluble. Ethanol: soluble.

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

Specific Gravity / Relative density 1.67

Vapour density no data available **Particle characteristics** no data available

Section 10: STABILITY AND REACTIVITY

Stability

no data available Reactivity

Chemical stability This material is deliquescent.

Hazardous reactions

May decompose explosively on shock, friction, vibration or heat. The substance decomposes on burning producing toxic or corrosive gases and fumes.

Conditions to avoid

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark, Shock

Incompatible materials

Strong bases

Hazardous decomposition products

Nitrogen oxides (NOx), Halides

Section 11: TOXICOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

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	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
	Hydroxylammonium chloride	141 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
riyaroxylariinomani omonao			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Hydroxylammonium chloride	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			
Hydroxylammonium chloride	Based on the NITE GHS classification results.			
Onders and demonstration				

Serious eye damage/ irritation Serious eye damage/irritation source information **Chemical Name**

Hydroxylammonium chloride	Based on the NITE GHS classification results.			
Respiratory or skin sensitization				
Chemical Name	Respiratory or Skin sensitization source information			
Hydroxylammonium chloride	Based on the NITE GHS classification results.			
Reproductive cell mutagenicity				
Chemical Name	germ cell mutagencity source information			
Hydroxylammonium chloride	Based on the NITE GHS classification results.			
Carcinogenicity	Carcinogenicity			
Chemical Name	Carcinogenicity source information			
Hydroxylammonium chloride	Based on the NITE GHS classification results.			

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Hydroxylammonium chloride	Based on the NITE GHS classification results.
TOT-single exposure	
Chemical Name	STOT -single exposure- source information
Hydroxylammonium chloride	Based on the NITE GHS classification results.
TOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Hydroxylammonium chloride	Based on the NITE GHS classification results.
anivation based	•

Aspiration nazard				
Chemical Name	Aspiration Hazard source information			
Hydroxylammonium chloride	Based on the NITE GHS classification results.			

Section 12: ECOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hydroxylammonium chloride	ErC50: Pseudokirchneriella	N/A	EC50 : Daphnia magna
	subcapitata		1.1 mg/L 48 h
	0.21 mg/L 72 h		

Other data

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

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
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

UN number UN3288

Proper shipping name: Toxic solid, inorganic, n.o.s. (Hydroxylammonium chloride)

UN classfication

Subsidiary hazard class

Ш Packing group Marine pollutant Yes

IMDG

UN number UN3288

Toxic solid, inorganic, n.o.s. (Hydroxylammonium chloride) Proper shipping name:

UN classfication

Subsidiary hazard class

Packing group Ш Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN3288 **UN** number

Proper shipping name: Toxic solid, inorganic, n.o.s. (Hydroxylammonium chloride)

UN classfication

Subsidiary hazard class

Ш Packing group **Environmentally Hazardous** Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Category V, hydroxylam ine salts, dangerous grade 2

Poisonous and Deleterious Deleterious Substances 3rd, Grade

Substances Control Law

Industrial Safety and Health Act Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) Industrial Safety and Health Act ([2025.4.1~] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

2025~)

【2025.4.1~】Notifiable Substances (Law Art.57-2) Priority Assessment Chemical Substances (Law Article 2, Para.5)

Act on the Evaluation of **Chemical Substances and** Regulation of Their Manufacture, etc

Regulations for the carriage

and storage of dangerous goods in ship

Civil Aeronautics Law

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

Regarding Transport by Ship and Storage, Attached Table 1)

Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Export Trade Control Order Not applicable

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(2023.4.1-)
Hydroxylammonium chloride	Applicable	-	-

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput IATA dangerous Goods Regulations

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

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

Record of SDS revisions

The following contents were revised. Fire fighting measures. Handling and storage. Stability and reactivity. Regulatory information.

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 Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet