

10% Hydroxylammonium chloride solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 6/18/2021 SDS code: FB-16 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name 10% Hydroxylammonium chloride solution

SDS code FB-16

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

> **Explosives** classification not possible

Flammable gases No classification

classification not possible Aerosol

Oxidizing gases No classification Gases under pressure No classification

Flammable liquids classification not possible

Flammable solids No classification

Self-reactive substances and

mixtures

Pyrophoric liquids

classification not possible classification not possible

No classification

Pyrophoric solids

Self-heating substances and

mixtures

classification not possible

classification not possible

Substances and mixtures which in contact with water emit flammable

gases

Oxidizing liquids classification not possible

Oxidizing solids No classification

Organic peroxides classification not possible Corrosive to metals classification not possible

Health hazards Acute toxicity (oral) Category 4

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

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

classification not possible Respiratory sensitization

Skin sensitization Category 1

Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible

Specific target organ toxicity (single

exposure)

Category 2 (blood)

Specific target organ toxicity

(repeated exposure)

classification not possible

Aspiration hazard classification not possible

Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic)

classification not possible

classification not possible

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS07

GHS

Signal word (GHS JP) : Warning

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

Causes skin irritation (H315)

May cause an allergic skin reaction (H317) Causes serious eye irritation (H319) May cause damage to organs (blood) (H371)

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)

Contaminated work clothing should not be allowed out of the workplace.

(P272)

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

(P280)

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

(P301+P312)

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

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)

Rinse mouth. (P330)

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)

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 : Mixture

	Concentration or		Kanpo number		CAS RN
Name Concentration range	Formula	CSCL no	ISHL no		
Hydroxylammonium chloride	About 10%	H2NOH·HCI	(1)-215,(1)- 375	Existing Chemical Substance	5470-11-1
Water	About 90%	H2O	-	-	7732-18-5

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

Firefighting instructions

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

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

Clean up any spills as soon as possible, using an absorbent material to

collect it.

Collect leaking and spilled liquid in sealable containers as far as possible.

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. 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

Precautions for safe handling

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

: Light shielding airtight container.

packaging/containers

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 : Gas mask

Hand protection : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection : Impervious aprons, Impervious work clothing, Protective long boots

9. Physical and chemical properties

Physical state : Liquid
Appearance : Liquid
Color : colorless
Odor : Odorless
pH : 2.7 (25°C)

Melting point No data available No data available Freezing point No data available Boiling point No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Density 1.04 g/cm³ (20°C) 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 data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : Reacts with strong oxidizing agents and bases.

Conditions to avoid : Sunlight, heat. Contact with strong oxidizing agents and bases.

Incompatible materials : Strong oxidizing agents, Bases
Hazardous decomposition : Nitrogen oxides, Chlorine compounds

products

11. Toxicological information

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

As a product	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	classification not possible
Acute toxicity (inhalation)	vapors:classification not possible
	Gases:classification not possible
	dust, mist:classification not possible

As a product		
Skin corrosion/irritation	Category 2	
Serious eye damage/irritation	Category 2A	
Respiratory sensitization	classification not possible	
Skin sensitization	Category 1	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 2	
STOT-repeated exposure Aspiration hazard	classification not possible classification not possible	
	Classification flot possible	
Hydroxylammonium chloride	Onto many 0	
Acute toxicity (oral)	Category 3	
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	Category 2	
Serious eye damage/irritation	Category 2A	
Respiratory sensitization	classification not possible	
Skin sensitization	Category 1	
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	classification not possible	
Aspiration hazard	classification not possible	
Water		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	No classification	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	No classification	
Acute toxicity (inhalation:dust/mist)	No classification	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	No classification	
Respiratory sensitization	No classification	
Skin sensitization	No classification	
Germ cell mutagenicity	No classification	
Carcinogenicity	No classification	
Reproductive toxicity	No classification	
STOT-single exposure	No classification	
STOT-repeated exposure	No classification	
Aspiration hazard	No classification	

12. Ecological information

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

The information in this section is based on the Gris Classification Results by NTE.		
As a product		
Hazardous to the aquatic environment, short-term (acute)	classification not possible	
Hazardous to the aquatic environment, long-term (chronic)	classification not possible	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Ozone	classification not possible	

Hydroxylammonium chloride		
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	
Water		
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	

13. Disposal considerations

Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a

classification not possible

waste disposer authorized by a Prefectural Governor.

Contaminated container and

Hazardous to the ozone layer

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

Chemical Substances Control Law : Priority Assessment Chemical Substances (Law Article 2, Para.5)

Industrial Safety and Health Law : Not applicable

Japanese Poisonous and :

Deleterious Substances Control Law

Deleterious Substances (Designated Order Art.2) Hydroxylamine salts and preparations containing it

Fire Service Law : Not applicable

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Road Act : Restriction for Vehicle Traffic (Enforcement Order Art.19-13,

Publication of Japan Highway Pablic Corp.)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

16. Other information

Data sources

 Handbook of 17221 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 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.