

# 6mol/L(6N) Acetic acid

## Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 5/20/2009 Revision date: 9/21/2023 SDS code: N8-03 Version: 08

## Safety Data Sheet

## 1. Chemical product and company identification

6mol/L(6N) Acetic acid **Product name** 

SDS code N8-03

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

Physical hazards **Explosives** classification not possible

> Flammable gases No classification

Aerosol classification not possible

Oxidizing gases No classification Gases under pressure No classification

Flammable liquids classification not possible

Flammable solids No classification

Self-reactive substances and classification not possible

mixtures

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

classification not possible

mixtures

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 Category 1

Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) No classification

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

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

Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1

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 Category 1 (blood, respiratory system)

exposure)

Specific target organ toxicity

(repeated exposure)
Aspiration hazard

classification not possible classification not possible

Environmental hazards

Hazardous to the aquatic environment, short-term (acute)

Category 3

Hazardous to the aquatic

environment, long-term (chronic)

No classification

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS05

GHS08

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : May be corrosive to metals (H290)

Causes severe skin burns and eye damage (H314)

Causes damage to organs (blood, respiratory system) (H370)

Harmful to aquatic life (H402)

Precautionary statements (GHS JP)

Prevention : Keep only in original container. (P234)

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)

Avoid release to the environment. (P273)

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

(P280)

Response : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . (P303+P361+P353)

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)

Immediately call a POISON CENTER or doctor. (P310) Wash contaminated clothing before reuse. (P363) Absorb spillage to prevent material-damage. (P390)

Storage : Store locked up. (P405)

Store in corrosive resistant container with a resistant inner liner. (P406)

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

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	CASIKI
Acetic acid	About 34.6%	СНЗСООН	(2)-688	Existing Chemical Substance	64-19-7
Water	About 65.4%	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 wt%, unless otherwise specified.

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## 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.

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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 : Do NOT induce vomiting.

Drink plenty of water.

Rinse mouth.

Get immediate medical advice/attention.

# 5. Fire fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

: Do not use a heavy water stream.

Explosion hazard

Firefighting instructions

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.

in case of fire, product may produce initative of toxic furnes/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

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

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 : 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.

If possible, neutralize with slaked lime, soda ash, etc. before washing out.

## 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.

Store in corrosive resistant container with a resistant inner liner.

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

Exposure limit values		
Acetic acid		
Exposure limits (JSOH)	10ppm(25mg/m3)	
Exposure limits (ACGIH)	TWA 10 ppm.STEL 15 ppm	

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 for acid gases
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, Impervious long boots

## 9. Physical and chemical properties

Physical state : Liquid Appearance : Liquid

Color : colorless transparent

Odor : Irritating odor pH :  $1.6 (25^{\circ}C)$ 

No data available Melting point Freezing point No data available No data available **Boiling point** 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 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 violently with oxidizing agents and strong bases. Corrodes many

kinds of metals to evolve flammable/explosive hydrogen gas. Corrodes

some kinds of plastics, rubbers and coating agents.

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

Incompatible materials : Oxidizing agents, Strong bases, Metals

Hazardous decomposition : Hydrogen

products

# 11. Toxicological information

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

As a product	TOTT THE GITO Classification results by NTTE.
Acute toxicity (oral)	No classification
Acute toxicity (drail)  Acute toxicity (dermal)	No classification
Acute toxicity (dermal)  Acute toxicity (inhalation)	vapors:classification not possible
(mission)	Gases:No classification
	dust, mist:classification not possible
Skin corrosion/irritation	Category 1
Serious eye damage/irritation	Category 1
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity Carcinogenicity	classification not possible classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure	Category 1
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible
Acetic acid	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	Category 4
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	Category 1
Serious eye damage/irritation	Category 1
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 1
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

Water	
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.				
As a product				
Hazardous to the aquatic environment, short-term (acute)	Category 3			
Hazardous to the aquatic environment, long-term (chronic)	No classification			
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Ozone	classification not possible			
Acetic acid				
Hazardous to Aquatic Environment - Acute Hazard	Category 3			
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			
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			
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) 2790

Proper Shipping Name (IMDG) ACETIC ACID SOLUTION

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 8 Hazard labels (IMDG) 8 Class (IMDG) 8 5 L Limited quantities (IMDG) Excepted quantities (IMDG) E1 Packing instructions (IMDG) P001, LP01

IBC packing instructions (IMDG) IBC03 Tank instructions (IMDG) T4 Tank special provisions (IMDG) TP1 Stowage category (IMDG) Α

Properties and observations (IMDG) Colourless liquid with a pungent odour. Miscible with water. Corrosive

to lead and most other metals. Corrosive to skin, eyes and mucous

membranes.

1L

MFAG-No 153

Air transport(IATA)

UN-No. (IATA) 2790

Proper Shipping Name (IATA) Acetic acid solution

Packing group (IATA) Ш Transport hazard class(es) (IATA) 8 Hazard labels (IATA) 8 Class (IATA) 8 PCA Excepted quantities (IATA) E1 PCA Limited quantities (IATA) Y841

quantity (IATA)

PCA limited quantity max net

PCA packing instructions (IATA) 852 PCA max net quantity (IATA) 5L CAO packing instructions (IATA) 856 CAO max net quantity (IATA) 60L Special provision (IATA) A803 ERG code (IATA) 81

Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Regulatory information by air Conform to the provisions of the Civil Aeronautics Law.

MFAG-No

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 Harmful Substances Whose Names Are to be Indicated on the Label

(Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,

Attached Table No.9)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9) Acetic acid (Ordinance number: 176)

Corrosive Liquids (Ordinance on Industrial Safety and Health Law Art.

326)

Japanese Poisonous and

**Deleterious Substances Control Law** 

Not applicable

Fire Service Law

Not applicable

Law Relating to Prevention of

Marine Pollution and Maritime

Noxious Liquid Substances - Category Z (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 3)

Disasters

Foreign Exchange and Foreign

Trade Control Act Ship Safety Act

Export Trade Control Ordinance appendix 1-16

Corrosive substances (Dangerous Goods Notification Schedule first

second and third Article Dangerous Goods Regulations)

Corrosive substances (Hazardous materials notice Appended Table 1 Civil Aeronautics Law

Article 194 of the Enforcement Regulations)

Port Regulation Law Corrosive substances (Article 21, Paragraph 2 of Law, Article 12 rule,

notice attached table that defines the type of dangerous goods)

Waste Management on Public

Cleansing Law

Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment

Order Art.2-4)

Japanese Pollutant Release and Transfer Register Law (PRTR Law) Not applicable

## 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 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.