

Hayashi Pure Chemical Ind.,Ltd. Revision date: 6/21/2023

Date of issue: 9/4/2019

SDS code: Z9-02

Version: 05

Safety Data Sheet

1. Chemical product and company identification

Product name SDS code	:	3W/V% Hydrochloric acid Z9-02
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirano Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hp URL : https://www.hpc-j.co.j	oma oc-j.	chi, Chuo-ku, Osaka, Osaka, Japan
Emergency number	:	06-6910-7305
Recommended use	:	For research and experimental use only.
Restrictions on use	:	Do not use on a human body or for animal medicines, foods, household 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 mixtures	classification not possible
	Pyrophoric liquids	classification not possible
	Pyrophoric solids	No classification
	Self-heating substances and mixtures	classification not possible
	Substances and mixtures which in contact with water emit flammable gases	classification not possible
	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
	Acute toxicity (inhalation:gas)	No classification
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Respiratory sensitization	Category 1
	Skin sensitization	No classification
	Germ cell mutagenicity	classification not possible
	Carcinogenicity	No classification
	Reproductive toxicity	classification not possible
	Specific target organ toxicity (single exposure)	Category 2 (respiratory system)

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	Specific targ	get organ toxicity xposure)	Category 2 (tooth, respiratory system)
	Aspiration h	azard	No classification
Environmental nazards		to the aquatic t, short-term (acute	Category 2
		to the aquatic t, long-term (chron	No classification ic)
	Hazardous	to the ozone layer	classification not possible
Hazard pictograms (GHS JP)			
		\checkmark	
	GHS05	GHS07	GHS08
Signal word (GHS JP))	: Danger	
Hazard statements (G	HS JP)		rosive to metals (H290)
			ere skin burns and eye damage (H314) haled (H332)
		May cause inhaled (H3	an allergy or asthma symptoms or breathing difficulties if 34)
		May cause prolonged c	damage to organs (respiratory system) (H371) damage to organs (tooth, respiratory system) through or repeated exposure (H373) uatic life (H401)
Precautionary stateme	ents (GHS JF	-	
Prevention			n original container. (P234)
		Wash hand Do not eat, Use only ou	the dust/fume/gas/mist/vapors/spray. (P260) s, forearms and face thoroughly after handling. (P264) drink or smoke when using this product. (P270) Itdoors or in a well-ventilated area. (P271) se to the environment. (P273)
		Wear prote (P280)	ctive gloves/protective clothing/eye protection/face protection
6		-	nadequate ventilation] wear respiratory protection. (P284)
Response		: IF SWALLC (P301+P33	WED: Rinse mouth. Do NOT induce vomiting. 0+P331)
		IF ON SKIN Rinse skin v	l (or hair): Take off immediately all contaminated clothing. with water . (P303+P361+P353)
			D: Remove person to fresh air and keep comfortable for P304+P340)
		IF IN EYES	: Rinse cautiously with water for several minutes. Remove ses, if present and easy to do. Continue rinsing.
			or concerned: Call a POISON CENTER or doctor.
		(P308+P31 Immediately	1) / call a POISON CENTER or doctor. (P310)
		Get medica	l advice/attention if you feel unwell. (P314)
		(P342+P31	
			ıminated clothing before reuse. (P363) age to prevent material-damage. (P390)
Storage		: Store locke	d up. (P405) rosive resistant container with a resistant inner liner. (P406
			contents/container to hazardous or special waste collection

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or	Formula	Kanpo	CAS RN	
Name	Concentration range	Tornidia	CSCL no	ISHL no	
Hydrogen chloride	About 3.0%	HCI	(1)-215	Existing Chemical Substance	7647-01-0
Water	About 97.0%	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.

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.
contact		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

•	Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.
	Do not use a heavy water stream.
•	This product is unburnable.
:	May induce explosion of containers by heating.
	May induce explosion of containers by water contamination.
:	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.
	Avoid (reject) fire-fighting water to enter environment.
	Even after extinguishing fire, thoroughly cool containers by using plenty of water.
:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.
	:::::::::::::::::::::::::::::::::::::::

6. Accidental release measures

Personal Precautions, P	Protective Equipment and	Emergency Procedures
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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 : Avoid release to the environment. Prevent entry to sewers and public waters. Methods and Equipment for Containment and 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 : 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 : Store locked up. 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.	Environmental precautions	
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J		Store in corrosive resistant container with a resistant inner liner.
		Airtight container.
Technical measures : Comply with applicable regulations.	Technical measures :	Comply with applicable regulations.
Storage temperature : Cool and dark place	Storage temperature :	Cool and dark place

8. Exposure controls / Personal protection equipment

Exposure limit values	
Hydrogen chloride	
Exposure limits (JSOH)	[Ceiling]2ppm(3.0mg/m3)
Exposure limits (ACGIH)	TWA -,STEL C 2 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	:	Almost odorless
рН	:	≤ 1 (25°C)
Melting point	:	No data available
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
Relative density	:	No data available
Density	:	1.01 g/cm ³ (20°C)
Relative gas density	:	No data available
Solubility	:	No data available
Partition coefficient n- octanol/water (Log Pow)	:	No data available
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	:	Be strong acid, reacts with bases. Reacts with oxidizing agents to generate toxic chlorine gas. When heated, it generates toxic hydrogen chloride gas. Corrodes many kinds of metals to generate flammable/explosive hydrogen gas.
Conditions to avoid	:	Sunlight, heat. Contact with bases, oxidizing agents, organic peroxides and metals.
Incompatible materials	:	Bases, Oxidizing agents, Organic peroxides, Metals
Hazardous decomposition products	:	Hydrogen chloride, Chlorine, Hydrogen

11. Toxicological information

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

As a product			
Acute toxicity (oral)	No classification		
Acute toxicity (dermal)	No classification		
Acute toxicity (inhalation)	vapors:classification not possible		
	Gases:No classification		
	dust, mist:Category 4		
Skin corrosion/irritation	Category 1		
Serious eye damage/irritation	Category 1		
Respiratory sensitization	Category 1		
Skin sensitization	No classification		
Germ cell mutagenicity	classification not possible		
Carcinogenicity	No classification		
Reproductive toxicity	classification not possible		
STOT-single exposure	Category 2		
STOT-repeated exposure	Category 2		
Aspiration hazard	No classification		
Hydrogen chloride			
Acute toxicity (oral)	Category 3		
Acute toxicity (dermal)	No classification		
Acute toxicity (gas)	Category 3		
Acute toxicity (vapour)	classification not possible		
Acute toxicity (inhalation:dust/mist)	Category 2		
Skin corrosion/irritation	Category 1		
Serious eye damage/irritation	Category 1		
Respiratory sensitization	Category 1		
Skin sensitization	No classification		
Germ cell mutagenicity	classification not possible		
Carcinogenicity	No classification		
Reproductive toxicity	classification not possible		

Hydrogen chloride			
STOT-single exposure	Category 1		
STOT-repeated exposure	Category 1		
Aspiration hazard	No classification		
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 "GHS Classification Results" by NITE.				
As a product				
Hazardous to the aquatic environment,	Category 2			
short-term (acute)				
Hazardous to the aquatic environment,	No classification			
long-term (chronic)				
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Ozone	classification not possible			
Hydrogen chloride				
Hazardous to Aquatic Environment - Acute Hazard	Category 1			
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)	: 1789
Proper Shipping Name (IMDG)	: HYDROCHLORIC ACID
Packing group (IMDG) Transport hazard class(es) (IMDG)	: III : 8
Hazard labels (IMDG)	: 8
Class (IMDG)	: 8
Special provision (IMDG)	: 223
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG) Tank special provisions (IMDG)	: T4 : TP1
Stowage category (IMDG)	: C
	: Colourless liquid. An aqueous solution of the gas hydrogen chloride.
	Highly corrosive to most metals. Causes burns to skin, eyes and
MFAG-No	mucous membranes. : 157
	. 137
Air transport(IATA)	. 1700
UN-No. (IATA) Proper Shipping Name (IATA)	: 1789 : Hydrochloric acid
Packing group (IATA)	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
	: 8
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: E1 : Y841
PCA limited quantity max net	: 1L
quantity (IATA)	
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L : 856
CAO packing instructions (IATA) CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3
ERG code (IATA)	: 8L
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	 157 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	: Group 3 Specified Chemical Substance, (Ordinance on Prevention of
	Hazards Due to Specified Chemical Substances Art.2 Para.1, Item 6)
	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)
	Hydrogen chloride (Ordinance number : 98) Corrosive Liquids (Ordinance on Industrial Safety and Health Law Art.
	326)
	Substances on dental health checkup (Act, Art.66, Para.3,
	Enforcement Order, Art.22 Item 3)
Japanese Poisonous and	: Not applicable
Deleterious Substances Control Law	- Designated Chemical Substances (Low Article S. Deveryon A
Water Pollution Prevention Law	: Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3)

- Enforcement Order Article 3-3)
- Fire Service Law

: Not applicable

Air Pollution Control Law	:	Hazardous substances (Article 2, Paragraph 1, Item 3 of the Law, Article 1 of the Enforcement Ordinance) Specified substances (Article 17, Paragraph 1 of the Law, Article 10 of the Enforcement Ordinance)
Law Relating to Prevention of Marine Pollution and Maritime Disasters	:	Noxious Liquid Substances - Category Z (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 3)
Foreign Exchange and Foreign Trade Control Act	:	Export Trade Control Ordinance appendix 1-16
Ship Safety Act	:	Corrosive substances (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Civil Aeronautics Law	:	Corrosive substances (Hazardous materials notice Appended Table 1 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
Labor Standards Act	:	Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification No.36 of 1978)
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.