

0.2mol/L Zinc acetate solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 1/27/2021 Revision date: 5/11/2022 SDS code: YA-14 Version: 03

Safety Data Sheet

1. Chemical product and company identification

Product name 0.2mol/L Zinc acetate solution

SDS code YA-14

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Emergency number 06-6910-7305

2. Hazards identification

GHS classification

Physical hazards classification not possible **Explosives**

> 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

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 classification not possible

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 Desensitized eplosives classification not possible

Health hazards Acute toxicity (oral) No classification

> classification not possible Acute toxicity (dermal) 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 No classification

Serious eye damage/eye irritation classification not possible 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 classification not possible

Specific target organ toxicity (single

exposure)

Specific target organ toxicity classification not possible

(repeated exposure)

Aspiration hazard classification not possible Revision date: 5/11/2022 SDS code: YA-14 Version: 03

Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

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

Hazardous to the ozone layer

classification not possible

classification not possible

classification not possible

3. Composition/information on ingredients

Distinction of substance or mixture Mixture

Name	Concentration or Concentration range	Formula	Kanpo number		
			CSCL no	ISHL no	CAS RN
Zinc acetate dihydrate	About 4.3%	Zn(CH3COO)2 •2H2O	(2)-693	Existing Chemical Substance	5970-45-6
Acetic acid	About 0.2%	СНЗСООН	(2)-688	Existing Chemical Substance	64-19-7
Water	About 95.5%	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

Unsuitable extinguishing media

Hazardous decomposition products

Use proper extinguishing media depending on peripheral fire.

Do not use a heavy water stream.

In case of fire, product may produce irritative or toxic fumes/gases.

in case of fire

Firefighting instructions

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

Wear appropriate personal protective devices to prevent inhalation and General measures

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.

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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.

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 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

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

: Cover up tightly the generation source at the handling place or install local Appropriate engineering controls

exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Protective 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

5.3 (25°C)

9. Physical and chemical properties

Physical state Liquid Appearance Liquid

Color colorless transparent Odor Acetic acid odor

рΗ 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 No data available Relative density

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Density : 1.02 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 : When heated strongly, it produces zinc oxide fume. Reacts with strong

oxidizing agents.

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

Incompatible materials : Strong oxidizing agents

Hazardous decomposition : Zinc oxide

products

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)	classification not possible	
Acute toxicity (inhalation)	vapors:classification not possible	
	Gases:classification not possible	
	dust, mist:classification not possible	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	classification not possible	
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 STOT-repeated exposure	classification not possible classification not possible	
Aspiration hazard	classification not possible	
•	Classification not possible	
Zinc acetate dihydrate		
Acute toxicity (oral)	Category 4	
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 3	
Serious eye damage/irritation	classification not possible	
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	classification not possible	
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	

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Acetic acid		
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	
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,	classification not possible	
short-term (acute)	·	
Hazardous to the aquatic environment,	classification not possible	
long-term (chronic)		
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Ozone	classification not possible	
Zinc acetate dihydrate		
Hazardous to Aquatic Environment -	classification not possible	
Acute Hazard		
Hazardous to Aquatic Environment -	classification not possible	
Chronic Hazard		
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	
Acetic acid		
Hazardous to Aquatic Environment -	Category 3	
Acute Hazard		
Hazardous to Aquatic Environment -	No classification	
Chronic Hazard		
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	

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Acetic acid		
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 : Empty the packaging completely prior to disposal.

packaging 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 : Not applicable

Deleterious Substances Control Law

Water Pollution Prevention Law : Designated Chemical Substances (Law Article 2, Paragraph 4,

Enforcement Order Article 3-3)

Fire Service Law : Not applicable

Air Pollution Control Law : Hazardous Air Pollutants (Central Environment Council Report No. 9)

Foreign Exchange and Foreign

Trade Control Act

: Export Trade Control Ordinance appendix 1-16

Waterworks Law : Hazardous Substances (Act Article 4 paragraph 2), Standard for

Water Quality (Ministry Order No.101 of 2003)

Sewerage Law : Substances for Water Quality Standard (Act Art.12-2 Para.2,

Enforcement Order Art.9-4)

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Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Class 1 Designated Chemical Substances (Act Art.2 para. 2, Enforcement Oder Art.1 Appended Table No.1)

Zinc, soluble compounds zinc(1.3%) [After amendment of April 2023]

Class 1 Designated Chemical Substances (Act, Art.2, Para.2,

Enforcement Order, Art.1 Appended Table 1) Zinc compounds (water-soluble) zinc(1.3%)

16. Other information

Data sources : Handbook of 17322 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.