

Date of issue: 2018/04/27 Date of revision: 2024/07/09

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Mercury(II)acetate SDS No. : 4792E-3
Relevant identified uses of the substance or mixture and uses advised against Research and Development
Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN Division: Chemical Safety Management Department Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607

Section 2. Hazards identification

GHS classification and label elements of the product Classification of the substance or mixture HEALTH HAZARDS Acute toxicity (Oral): Category 2 Acute toxicity (Dermal): Category 3 Skin corrosion/irritation: Category 1 Serious eye damage/eye irritation: Category 1 Skin sensitization: Category 1 Germ cell mutagenicity: Category 2 Reproductive toxicity: Category 2 Specific target organ toxicity – single exposure: Category 2 (respiratory system, kidneys) Specific target organ toxicity – repeated exposure: Category 1 (kidneys) Specific target organ toxicity – repeated exposure: Category 2 (nervous system) ENVIRONMENT HAZARDS

Hazardous to the aquatic environment, short-term (acute): Category 1

Hazardous to the aquatic environment, long-term (chronic): Category 1

(Note) GHS classification without description: Not classified/Classification not possible Label elements



Signal word: Danger HAZARD STATEMENT

- H300 Fatal if swallowed
- H311 Toxic in contact with skin
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H341 Suspected of causing genetic defects
- H361 Suspected of damaging fertility or the unborn child
- H371 May cause damage to organs (respiratory system, kidneys)



H372 Causes damage to organs through prolonged or repeated exposure (kidneys)

H373 May cause damage to organs through prolonged or repeated exposure (nervous system)

H410 Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

 ${\rm P260\ Do\ not\ breathe\ dust/fume/gas/mist/vapors/spray}.$

P264 Wash contaminated parts thoroughly after handling.

P280 Wear protective gloves or protective clothing.

P280 Wear protective gloves.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing or face protection.

P280 Wear eye protection/face protection.

P280 Use personal protective equipment as required.

P270 Do not eat, drink or smoke when using this product.

Response

P391 Collect spillage.

P314 Get medical advice/attention if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER/doctor/physician.

P312 Call a POISON CENTER/doctor/physician if you feel unwell.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/physician.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 IF SWALLOWED: Rinse mouth.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

Specific adverse human health effects

See "11. Toxicological Information".



Section 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name	Content (%)	CAS No.	Chemicals No, Japan	Chemical formula
Mercury(II)acetate	99(min)	1600-27-7	2-693	Hg(CH3COO)2

Note : The figures shown above are not the specifications of the product.

	st-aid measures				
Description	s of first-aid measures				
General	measures				
Get	t medical advice/attention if you feel unwell.				
IF INHAL	.ED				
Rer	Remove person to fresh air and keep comfortable for breathing.				
Cal	l a POISON CENTER/doctor/physician if you feel unwell.				
IF ON SI	IF ON SKIN				
Tał	e off immediately all contaminated clothing. Rinse skin with water or shower.				
Wa	sh with plenty of soap and water.				
If s	kin irritation or rash occurs: Get medical advice/attention.				
IF IN EYI	ES				
Rin	se cautiously with water for several minutes. Remove contact lenses, if present and easy				
	do. Continue rinsing.				
	ye irritation persists: Get medical advice/attention.				
	IF SWALLOWED				
Rin	se mouth.				
Do	NOT induce vomiting.				
Imn	nediately call a POISON CENTER/doctor/physician.				
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Wear protective gloves/protective clothing/eye protection/face protection.



Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses, low areas or rivers. To be careful not discharged to the environment without being properly handled waste water contaminated. Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

Collect spillage.

Section 7. Handling and storage

Precautions for safe handling Preventive measures (Exposure Control for handling personnel) Do not breathe dust/fume/gas/mist/vapors/spray. (Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures

Do not handle until all safety precautions have been read and understood.

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

Wash hands et al thoroughly after handling.

When using do not eat, drink or smoke.

Any incompatibilities

See "10.Stability and Reactivity".

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

- Contaminated work clothing should not be allowed out of the workplace.
- Take off immediately all contaminated clothing and wash it before reuse.

Storage

Conditions for safe storage

Keep container tightly closed.

Store locked up. (P405)

Store in a cool, dry place. Do not store in direct sunlight.

Storage in accordance with local/national regulation.

Container and packaging materials for safe handling



Use closed unbreakable containers.

Section 8. Exposure controls/personal protection	
Control parameters	
Control value and concentration standard value are not available in ISHA.	
Adopted value	
(Other inorganic and organic dust (third class dust))	
JSOH Respirable dust 2mg/m3, Total dust 8mg/m3	
Exposure controls	
Appropriate engineering controls	
Do not use in areas without adequate ventilation.	
Eye wash station should be available.	
Washing facilities should be available.	
Individual protection measures	
Recommend to use protective equipment in conformity with the standards.	
Use appropriate protective equipment in accordance with local/national regulation.	
Respiratory protection	
Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge corresponding to type of gases when using a gas mask.	
Hand protection	
Wear impervious protective glove.	
Eye protection	
Wear eye/face protection. Wear safety goggles in cases gas is generated.	
Skin and body protection	
Wear protective clothing.	

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties
Physical state: Crystals or crystalline powder
Color: White
Odor data is not available.
Melting point/Freezing point: (decomposes) 178°C
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Flammability (gases, liquids and solids) data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Flash point data is not available.
Auto-ignition temperature data is not available.
Decomposition temperature data is not available.
pH data is not available.
Kinematic viscosity data is not available.
Solubility:
Solubility in water: Soluble (40 g/100 ml, 20° C)
Solubility in solvent data is not available.
n-Octanol/water partition coefficient data is not available.
Vapor pressure: 0.24 Pa (25°C) (calculated)
Density and/or relative density: 3.28 g/cm3
Relative vapor density (Air=1) data is not available.



Particle characteristics data is not available. Other information Other information is not available.

Section 10. Stability and Reactivity Reactivity Not available. Chemical stability Stable under normal storage/handling conditions. Possibility of hazardous reactions Decomposes on heating and under the influence of light. Attacks many metals. Reacts with ammonia, strong acids and strong oxidants. (ICSC 0978) Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Strong acids, Strong oxidizing agents, Ammonia Hazardous decomposition products

Carbon oxides

Section 11. Toxicological Information

Information on toxicological effects Acute toxicity Acute toxicity (Oral) [Product] Category 2, Fatal if swallowed [Data for components of the product] [GHS Cat. Japan, base data] rat LD50=41mg/kg (RTECS, 2005) Acute toxicity (Dermal) [Product] Category 3, Toxic in contact with skin [Data for components of the product] [GHS Cat. Japan, base data] rabbit LD50=570mg/kg (RTECS, 2005) Irritant properties Skin corrosion/irritation [Product] Category 1, Causes severe skin burns and eye damage [Data for components of the product] [GHS Cat. Japan, base data] corrosive (ICSC(J), 2000) Serious eye damage/irritation [Product] Category 1, Causes serious eye damage [Data for components of the product] [GHS Cat. Japan, base data] corrosive (ICSC(J), 2000)



Sensitization Skin sensitization [Product] Category 1, May cause an allergic skin reaction [Data for components of the product] [GHS Cat. Japan, base data] cat. 1; JSOH Germ cell mutagenicity [Product] Category 2, Suspected of causing genetic defects [Data for components of the product] [GHS Cat. Japan, base data] cat. 2; (somatic cell mutagenicity tests in vivo) Positive Carcinogenic effects data is not available. Reproductive toxicity [Product] Category 2, Suspected of damaging fertility or the unborn child [Data for components of the product] [GHS Cat. Japan, base data] cat. 2; CICAD 50, 2003 Specific target organ toxicity (STOT) STOT-single exposure [Product] Category 2, May cause damage to organs [Data for components of the product] [cat.2] [GHS Cat. Japan, base data] respiratory system, kidneys (ICSC(J), 2000) STOT-repeated exposure [Product] Category 1, Causes damage to organs through prolonged or repeated exposure Category 2, May cause damage to organs through prolonged or repeated exposure [Data for components of the product] [cat.1] [GHS Cat. Japan, base data] kidneys (ICSC(J), 2000; ATSDR, 1999) [cat.2] [GHS Cat. Japan, base data] nervous system (ICSC(J), 2000) Aspiration hazard data is not available. Information on other hazards May cause lung disorders by massive inhalation of powdered substance. -e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

Section 12. Ecological Information Toxicity

Aquatic toxicity [Product]



Category 1. Very toxic to aquatic life Category 1, Very toxic to aquatic life with long lasting effects [Data for components of the product] Hazardous to the aquatic environment, short-term (acute) [GHS Cat. Japan, base data] Crustacea (grass shrimp) LC50=0.06mg/L/96hr (ECETOC, 2003) Water solubility good (40 g/100 ml, 20°C) (ICSC, 2014) Persistence and degradability Persistence and degradability data is not available. Bioaccumulative potential Bioaccumulative potential data is not available. Mobility in soil Mobility in soil data is not available. Other adverse effects Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Avoid release to the environment. Dispose of contents/container as industrial waste. Accordance with local/national

Section 14. Transport Information

regulation.

UN Number or ID Number : 1629 UN Proper Shipping Name : MERCURY ACETATE Class or division (Transport hazard class) : 6.1 Packing group : II ERG GUIDE No.: 151 IMDG Code (International Maritime Dangerous Goods Regulations) UN Number or ID Number : 1629 UN Proper Shipping Name : MERCURY ACETATE Class or division (Transport hazard class) : 6.1 Packing group : II IATA (Dangerous Goods Regulations) UN Number or ID Number : 1629 UN Proper Shipping Name : MERCURY ACETATE Class or division (Transport hazard class) : 6.1 Hazard labels : Toxic Packing group : II Environmental hazards Marine pollutants (yes/no) : yes



Section 15. Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
 - U.S. Toxic Substances Control Act (TSCA) Inventory
 - Chemicals listed in TSCA Inventory

Applicable

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

Section 16. Other information

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN IMDG Code, 2022 Edition (Incorporating Amendment 41–22) IATA Dangerous Goods Regulations (65th Edition) 2024 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2024 TLVs and BEIs. (ACGIH) JIS Z 7252 : 2019 JIS Z 7253 : 2019 2023 Recommendation on TLVs (JSOH) Supplier's data/information

General Disclaimer

Please provide SDS to customers for selling or transferring.

All chemicals have unknown hazard. Handle the product with care.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2022).