

Mercury, standard solution 1000mg/L, JUNSEI CHEMICAL CO., LTD., 39015jis\_E2-1, 19/01/2021

Date of issue for the 1st edition : 19/01/2021

# Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking
Product identifier:
Product name: Mercury, standard solution 1000mg/L
Reference number(SDS):39015jis_E2-1
Product type:
Reagent
Details of the supplier of the safety data sheet
Manufacturer/Supplier: JUNSEI CHEMICAL CO., LTD.
Address: 1–6, Ohmano-cho, Koshigaya-shi, Saitama 343-0844, Japan
Division: Quality Assurance Department
Telephone number: +81-48-986-6161
FAX: +81-48-989-2787
e-mail address: shiyaku-t@junsei.co.jp
2. Hazards identification
GHS classification and label elements of the product Classification of the substance or mixture
HEALTH HAZARDS
Skin corrosion/irritation: Category 1 Serious eye damage/eye irritation: Category 1
ENVIRONMENT HAZARDS
Hazardous to the aquatic environment (Acute): Category 2
Hazardous to the aquatic environment (Long-term): Category 2 Hazardous to the aquatic environment (Long-term): Category 2
(Note) GHS classification without description: Not classified/Classification not possible
Label elements
Signal word: Danger
HAZARD STATEMENT
H314-Causes severe skin burns and eye damage
H318-Causes serious eye damage
H401–Toxic to aquatic life
H411-Toxic to aquatic life with long lasting effects
PRECAUTIONARY STATEMENT
Prevention
Avoid release to the environment.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash contaminated parts thoroughly after handling.
Wear protective gloves, protective clothing or face protection.
Wear eye protection/face protection.
Response
Collect spillage.
Immediately call a POISON CENTER or doctor/physician.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.



Mercury, standard solution 1000mg/L, JUNSEI CHEMICAL CO., LTD.,39015jis\_E2-1,19/01/2021 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Storage Store locked up. Disposal Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

Ingredient name:Mercury(II) chloride Content (%):0.14 Chemical formula:Cl2Hg Chemicals No, Japan:1-226 CAS No.:7487-94-7 MW:271.50 ECNO:231-299-8

Ingredient name:Hydrogen chloride Content (%):0.07 Chemical formula:CIH Chemicals No, Japan:1–215 CAS No.:7647–01–0 MW:36.46 ECNO:231–595–7

Ingredient name:Water Content (%):Residual quantity of the ingredient mentioned above. Chemical formula:H2O CAS No.:7732-18-5 MW:18.02 ECNO:231-791-2 Note : The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures

General measures

Immediately call a POISON CENTER or doctor/physician.

Call emergency medical service.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.

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

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

Remove and isolate contaminated clothing and shoes.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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If eye irritation persists: Get medical advice/attention.

### IF SWALLOWED

Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

Fire-fighting me	easures
Extinguishing m	
	nguishing media
	ropriate extinguishing media suitable for surrounding facilities.
	duct is non-flammable.
	xtinguishing media
	ble extinguishing media data is not available.
	s arising from the substance or mixture
	ers may explode when heated.
	y produce irritating, corrosive and∕or toxic gases.
-	rom fire control or dilution water may cause pollution.
Advice for firef	
	- fighting measures
	e non-essential personnel to safe area.
	ective equipment and precautions for fire-fighters
	e/flame resistant/retardant clothing.
	otective gloves/protective clothing/eye protection/face protection.
Wear pro	
-	ers should wear self-contained breathing apparatus with full face peace operated
Firefight	ers should wear self-contained breathing apparatus with full face peace operated pressure mode.
Firefight positive . Accidental relea Personnel prec	ers should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures
Firefight positive . Accidental relea Personnel prec Keep un	ters should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures authorized personnel away.
Firefight positive . Accidental relea Personnel prec Keep un In case	ers should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures
Firefight positive . Accidental rele Personnel prec Keep un In case least 20	ters should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures authorized personnel away. of contact with substance, immediately flush skin or eyes with running water for at
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Firefight positive Accidental relea Personnel prec Keep un In case least 20 Ventilat Wear pre	ters should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures authorized personnel away. of contact with substance, immediately flush skin or eyes with running water for at minutes. e area until material pick up is complete. oper protective equipment. couch or walk through spilled material.
Firefight positive Accidental relea Personnel prec Keep un In case least 20 Ventilate Wear pro Do not t Environmental p	ters should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures authorized personnel away. of contact with substance, immediately flush skin or eyes with running water for at minutes. e area until material pick up is complete. oper protective equipment. couch or walk through spilled material.
Firefight positive Accidental relea Personnel prec Keep un In case least 20 Ventilat Wear pro Do not t Environmental p Avoid re	ters should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures authorized personnel away. of contact with substance, immediately flush skin or eyes with running water for at minutes. e area until material pick up is complete. oper protective equipment. couch or walk through spilled material. precautions
Firefight positive Accidental relea Personnel prec Keep un In case least 20 Ventilate Wear pro Do not t Environmental p Avoid re Methods and m	ters should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures authorized personnel away. of contact with substance, immediately flush skin or eyes with running water for at minutes. e area until material pick up is complete. oper protective equipment. couch or walk through spilled material. precautions elease to headsprings, rivers, lakes, ocean and groundwater. aterials for containment and cleaning up
Firefight positive Accidental relea Personnel prec Keep un In case least 20 Ventilate Wear pre Do not t Environmental p Avoid re Methods and m Absorb	ters should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures authorized personnel away. of contact with substance, immediately flush skin or eyes with running water for at minutes. e area until material pick up is complete. oper protective equipment. couch or walk through spilled material. precautions elease to headsprings, rivers, lakes, ocean and groundwater. aterials for containment and cleaning up
Firefight positive Accidental relea Personnel prec Keep un In case least 20 Ventilate Wear pre Do not t Environmental p Avoid re Methods and m Absorb	ters should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures authorized personnel away. of contact with substance, immediately flush skin or eyes with running water for at minutes. e area until material pick up is complete. oper protective equipment. couch or walk through spilled material. orecautions elease to headsprings, rivers, lakes, ocean and groundwater. aterials for containment and cleaning up spill with inert material (dry sand, earth, et al), then place in a chemical waste container asures for secondary accident
Firefight positive Accidental relea Personnel prec Keep un In case least 20 Ventilat Wear pro Do not t Environmental p Avoid re Methods and m Absorb Preventive mea Collect	ters should wear self-contained breathing apparatus with full face peace operated pressure mode. ase measures autions, protective equipment and emergency procedures authorized personnel away. of contact with substance, immediately flush skin or eyes with running water for at minutes. e area until material pick up is complete. oper protective equipment. couch or walk through spilled material. orecautions elease to headsprings, rivers, lakes, ocean and groundwater. aterials for containment and cleaning up spill with inert material (dry sand, earth, et al), then place in a chemical waste container. asures for secondary accident

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/sparks/open flames/hot surfaces. - No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.



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(Safety treat	tments)
Avoid con	tact with skin.
Avoid con	tact with eyes.
Safety Measur	es
Wear prot	ective gloves, protective clothing or face protection.
	protection/face protection.
-	nal protective equipment as required.
	g do not eat, drink or smoke.
Any incompatil	-
	ses should not be mixed with the chemicals.
_	eral occupational hygiene
-	taminated parts thoroughly after handling.
	taminated clothing before reuse.
Storage	
Conditions for	safe storage
	well-ventilated place. Keep container tightly closed.
	. Protect from sunlight.
Store lock	
	packaging materials for safe handling data is not available.
Specific end use	·
	nation in Section 7.1 and 7.2 for handling and storage recommendations. See
	for exposure controls and personal protection recommendations.
Exposure control	s/personal protection
Exposure control Control paramete	
Exposure control Control paramete Control value	ers
Exposure control Control paramete Control value (Mercury(	ers II) chloride)
Exposure control Control paramete Control value (Mercury(	ers
Exposure control Control paramete Control value (Mercury(	ers II) chloride)
Exposure control Control paramete Control value (Mercury( Japan cor	ers II) chloride) htrol value (2004) <= 0.025mg−Hg∕m3
Exposure control Control paramete Control value (Mercury( Japan cor Adopted value (Hydrogen	ers II) chloride) htrol value (2004) <= 0.025mg−Hg∕m3
Exposure control Control paramete Control value (Mercury( Japan cor Adopted value (Hydrogen JSOH(201	rs II) chloride) ntrol value (2004) <= 0.025mg−Hg/m3 n chloride)
Exposure control Control paramete Control value (Mercury() Japan cor Adopted value (Hydrogen JSOH(201 ACGIH(20	ers II) chloride) ntrol value (2004) <= 0.025mg-Hg/m3 o chloride) 4) (ceiling) 2ppm; 3.0mg/m3
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Exposure control Control paramete Control value (Mercury() Japan cor Adopted value (Hydrogen JSOH(201 ACGIH(20 (Mercury() Adopted v ACGIH(19	ers II) chloride) htrol value (2004) <= 0.025mg-Hg/m3 (chloride) 4) (ceiling) 2ppm; 3.0mg/m3 00) STEL: C 2ppm (URT irr) II) chloride) ralue in JSOH is not available.
Exposure control Control paramete Control value (Mercury() Japan cor Adopted value (Hydrogen JSOH(201 ACGIH(20 (Mercury() Adopted v ACGIH(19 Notati	ers II) chloride) htrol value (2004) <= 0.025mg-Hg/m3 chloride) 4) (ceiling) 2ppm; 3.0mg/m3 00) STEL: C 2ppm (URT irr) II) chloride) ralue in JSOH is not available. 91) TWA: 0.025mg-Hg/m3 (CNS impair; kidney dam) con…Skin
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Exposure control Control paramete Control value (Mercury() Japan cor Adopted value (Hydrogen JSOH(201 ACGIH(20 (Mercury() Adopted v ACGIH(19 Notati Exposure control Appropriate en Do not us Eye wash Washing fa Individual prote Respiratory pro	ers II) chloride) htrol value (2004) <= 0.025mg-Hg/m3 i chloride) 4) (ceiling) 2ppm; 3.0mg/m3 00) STEL: C 2ppm (URT irr) II) chloride) ralue in JSOH is not available. 91) TWA: 0.025mg-Hg/m3 (CNS impair; kidney dam) ionSkin s gineering controls e in areas without adequate ventilation. station should be available. acilities should be
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Wear protective gloves. Recommended material(s): neoprene, nitrile, butyl rubber, viton, PVC, impermeable or chemical resistant rubber

Consult with your glove and/or personnel equipment manufacturer for selection of

appropriate compatible materials.

Eye protection

Wear chemical safety goggle.

Wear eye/face protection.



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Skin and body protection

Wear impervious clothing and boots in case of repeated or prolonged treatment.

9. Physical and Chemical Properties Information on basic physical and chemical properties Physical state: Liquid Color: Colorless Odor data is not available. Odor threshold data is not available. Melting point/Freezing point data is not available. Boiling point or initial boiling point data is not available. Boiling range data is not available. Flammability (gases, liquids and solids): Non-flammable Lower and upper explosion limit/flammability limit data is not available. Flash point: Non-flammable Auto-ignition temperature data is not available. Decomposition temperature data is not available. Self-Accelerating Decomposition Temperature/SADT data is not available. pH: pH  $\leq 2$ (strong acidic) Dynamic viscosity data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: Miscible Solubility in solvent data is not available. n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Vapor density data is not available. VOC data is not available. Evaporation rate data is not available. Density and/or relative density data is not available. Relative vapor density (Air=1) data is not available. Relative density of the Vapor/air – mixture at  $20^{\circ}$ C (Air = 1) data is not available. Critical temperature data is not available. No Particle characteristics data is not available. 10. Stability and Reactivity Reactivity Reactivity data is not available. Chemical stability Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

Conditions to avoid

Contact with incompatible materials.

Heat.

Incompatible materials

Strong bases

Hazardous decomposition products

Mercury oxides. Chlorides



Aquatic toxicity

H401-Toxic to aquatic life

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11. Toxicological Information
Information on toxicological effects
Acute toxicity
Acute toxicity (Oral)
[GHS Cat. Japan, base data]
(Mercury(II) chloride) rat LD50=35~105mg/kg (ATSDR, 1999)
(Hydrogen chloride) rat LD50=238mg/kg (SIDS, 2009)
Acute toxicity (Inhalation)
[GHS Cat. Japan, base data]
(Hydrogen chloride) mist: rat LC50=0.42mg/L/4hr (SIDS, 2009)
Labor standard law, Japan; Toxic
Hydrogen chloride; Mercury(II) chloride
Irritant properties
Skin corrosion/irritation
[GHS Cat. based on pH]
pH $\leq$ 2, accordingly Skin corrosion/irritation: Category 1
[GHS Cat. Japan, base data]
(Mercury(II) chloride) irritant (ATSDR, 1999)
(Hydrogen chloride) rabbit/mouse/rat/human : corrosive (SIDS, 2009)
Serious eye damage/irritation
[GHS Cat. based on pH]
pH $\leq$ 2, accordingly Serious eye damage/eye irritation: Category 1
[GHS Cat. Japan, base data]
(Mercury(II) chloride) irritant (ATSDR, 1999)
(Hydrogen chloride) rabbit : corrosive (SIDS, 2002)
Sensitization
Skin sensitization
[GHS Cat. Japan, base data]
(Mercury(II) chloride) cat. 1; JSOH journal vol. 53, 2011
Mutagenic effects data is not available.
Carcinogenicity
(Mercury(II) chloride)
IARC-Gr.3 : Not Classifiable as a Human Carcinogen
ACGIH-A4(1991) : Not Classifiable as a Human Carcinogen
EPA-Group C; Possible Human Carcinogen(1986)
(Hydrogen chloride)
IARC-Gr.3 : Not Classifiable as a Human Carcinogen
ACGIH-A4(2000) : Not Classifiable as a Human Carcinogen
Reproductive toxicity
[GHS Cat. Japan, base data]
(Mercury(II) chloride) cat. 1B; JECFA 1155, 2011
STOT
STOT-single exposure data is not available.
STOT-repeated exposure data is not available.
Aspiration hazard data is not available.
Information on other hazards
Data on the preparation itself is not available.
12. Ecological Information
Ecotoxicity

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Mercury, standard solution 1000mg/L, JUNSEI CHEMICAL CO., LTD., 39015jis E2-1, 19/01/2021 H411-Toxic to aquatic life with long lasting effects Hazardous to the aquatic environment (Acute) [GHS Cat. Japan, base data] (Mercury(II) chloride) Crustacea (Daphnia magna) LC50=1.8  $\sim$  4.3  $\mu$  g-Hg/L/48hr (Converted value(as HgCl2)= $2.4 \sim 5.8 \,\mu$  g/L/48hr) (EHC86, 1989) (Hydrogen chloride) Crustacea (Daphnia magna) EC50=0.492mg/L/48hr (SIDS, 2005) Hazardous to the aquatic environment (Long-term) [Company proprietary data] (Mercury(II) chloride) Crustacea (Daphnia magna) NOEC = 0.003 mg/L/21days (AQUIRE, 2012) Water solubility (Mercury(II) chloride) 6.9 g/100 ml (20°C) (ICSC, 2014) (Hydrogen chloride) 67 g/100 ml (30°C) (ICSC, 2000) Persistence and degradability Persistence and degradability data is not available. Bioaccumulative potential (Mercury(II) chloride) log Pow=0.1 (ICSC, 2014); BCF=4620 (J-CHECK) (Hydrogen chloride) log Pow=0.25 (ICSC, 2000) Mobility in soil Mobility in soil data is not available. Other adverse effects Ozone depleting chemical data is not available. Additional data Data on the preparation itself is not available.

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 (- if this is not the intended use). Dispose of contents/container in accordance with local/national regulation.

14. Transport Information UN No., UN CLASS UN No. or ID No.: 3082 UN Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Class or division (Transport hazard class): 9 Packing group : III ERG GUIDE No.: 171 IMDG Code (International Maritime Dangerous Goods Regulations) UN No.: 3082 Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Class or division : 9 Packing group : III IATA Dangerous Goods Regulations UN No.: 3082 Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Class or division : 9 Hazard labels : Miscellaneous & Environmentally hazardous Packing group : III



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Environmental hazards

MARPOL Annex III - Prevention of pollution by harmful substances

Marine pollutants (yes/no) : yes

Maritime transport in bulk according to IMO instruments

Noxious Liquid ; Cat. Z Hydrogen chloride(Z-033) Non Noxious Liquid ; Cat. OS Water(OS-018)

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Chemicals listed in TSCA Inventory

Mercury(II) chloride; Hydrogen chloride; Water

Other regulatory information

Regulatory information in this section are limited to intentional ingredient(s), but does not contain information on non-intentional ingredients or impurities which are not informed by supplier(s).

Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

## 16. Other information

GHS classification and labelling

H314-Skin Corr. 1: H314 Causes severe skin burns and eye damage

H318-Eye Dam. 1: H318 Causes serious eye damage

H401-Aquatic Acute 2: H401 Toxic to aquatic life

H411-Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (7th revised edition, 2017), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (61th Edition) 2020

Classification, labelling and packaging of substances and mixtures (Table 3 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2020 TLVs and BEIs. (ACGIH)

http://monographs.iarc.fr/ENG/Classification/index.php

JIS Z 7252 : 2019

JIS Z 7253 : 2019

2019 Recommendation on TLVs (JSOH)

Supplier's data/information

Chemicals safety data management system "GHS Assistant" Version 4.10 (https://www.asahi-ghs.com/) NITE Chemical Risk Information Platform "NITE-CHRIP"

(https://www.nite.go.jp/en/chem/chrip/chrip\_search/systemTop)

GHS Classification Guidance for Enterprises 2019 Revised Edition (Ver. 2.0) (Mar. 2020, METI)

Definitions and Abbreviations

SDS (Safety Data Sheet)

LD50 (Lethal Dose, 50%)

LC50 (Lethal Concentration, 50%)

IARC (International Agency for Research on Cancer)

ACGIH (American Conference of Governmental Industrial Hygienists)

EPA (US Environmental Protection Agency)

NTP (US National Toxicology Program)

JSOH (Japan Society for Occupational Health)



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EU (European Union)

EC50 (Effective Concentration, 50%) NOEC (No Observed Effect Concentration) BOD (Biochemical Oxygen Demand) COD (Chemical Oxygen Demand) BCF (Bioconcentration Factor) anh (anhydride)

### General Disclaimer

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 2019).