

31005-100G

Version 1.3 Issuing date Revision Date 04/14/2021 Print Date 08/05/2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Mercury(II) chloride

Number : 00000020775

Recommended use of the chemical and restrictions on

use

Laboratory chemicals

Manufacturer or supplier's

details

Honeywell Specialty Chemicals Seelze

GmbH

Wunstorfer Straße 40 Seelze, 30926

For further information,

please contact:

1-800-368-0050 +1-231-726-3171

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or +1-703-

527-3887

In Japan: +(81)-345209637 (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the : Acute toxicity, Category 2, Oral substance or mixture : Skin corrosion, Category 1B

Serious eye damage, Category 1
Germ cell mutagenicity, Category 2
Reproductive toxicity, Category 2

Specific target organ toxicity - repeated exposure, Category 1

Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1

GHS Label elements, including precautionary statements

Symbol(s) :









Signal word : Danger



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Hazard statements : Fatal if swallowed.

Causes severe skin burns and eye damage. Suspected of causing genetic defects.

Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated

exposure.

Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention**:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Keep only in original container.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

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

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face

protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/

doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

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

rinsing.

Immediately call a POISON CENTER/ doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

Collect spillage.

Storage:

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : HgCl2



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Chemical nature : Substance

Chemical name CAS-No. Concentration

Mercury(II) chloride 7487-94-7 100.00 %

Mercury(II) chloride

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Inhalation : If inhaled, remove to fresh air.

Call a physician immediately.

Skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Immediate medical treatment necessary, as untreated burns

can result in slow-healing wounds.

Eye contact : Protect unharmed eye.

Rinse thoroughly with plenty of water, also under the eyelids.

Call a physician immediately.

Ingestion : If swallowed, rinse mouth with water (only if the person is

conscious).

Immediate medical attention is required.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray jet

Foam

Carbon dioxide (CO2)

Dry powder

Specific hazards during

firefighting

Fire may cause evolution of: Toxic metal oxide fumes

Hydrogen chloride gas

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus and protective suit.

No unprotected exposed skin areas.

Further information : The product itself does not burn.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.

Wear personal protective equipment. Unprotected persons

must be kept away. Avoid dust formation. Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

protection suit and a self-contained breathing apparatus.

Use mechanical handling equipment.

Sweep up and shovel into suitable containers for disposal.

Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Wear personal protective equipment.

Use product only in closed system.

Use only in area provided with appropriate exhaust ventilation.

Keep limited supplies at workplace.

Never return unused material to storage receptacle.

Plan first aid action before beginning work with this product. Avoid exposure - obtain special instructions before use.

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Storage

Conditions for safe storage,

including any incompatibilities

Store in original container.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep locked up or in an area accessible only to qualified or

authorised persons.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS- No.	Value	Control parameters	Update	Basis
Mercury(II) chloride Mercury(II) chloride	7487-94- 7	TL : Threshold limits	0.025 mg/m3	04 2009	ISHL:Industrial Safety and Health Law OEL
Further information	: Expres	sed as : as Hg			
			Included in the regulation but with no data values. See regulation for further details.	05 2014	Japan Society for Occupational Health:Japan Society for Occupational Health allowable concentration recommendatio n value
		TL : Threshold limits	0.025 mg/m3	04 2009	ISHL:Industrial Safety and Health Law OEL
Further information	: Expres	sed as : as Hg	L		
			Included in the regulation but with no data values. See regulation for further details.	05 2014	Japan Society for Occupational Health:Japan Society for Occupational Health allowable concentration recommendatio n value

Appropriate engineering controls

Use product only in closed system.



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Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Hand protection : Wear nitrile rubber gloves to avoid contact with the skin.

Gloves must be inspected prior to use.

Replace when worn.

Eye protection : Safety goggles

Skin and body protection : Protective suit

Hygiene measures : Keep working clothes separately.

When using, do not eat, drink or smoke.

Separate rooms are required for washing, showering and

changing clothes.

Written instructions for handling must be available at the work

place.

Contaminated work clothing should not be allowed out of the

workplace.

Regular cleaning of equipment, work area and clothing.

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid exposure - obtain special instructions before use.

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Colour : white

Odour : odourless

pH : Note: No data available

Melting point/range : 276 °C

Boiling point/boiling range : 302 °C



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Flash point : Note: Not applicable

Flammability : The product is not flammable.

Lower explosion limit : Note: Not applicable

Upper explosion limit : Note: Not applicable

Vapour pressure

Note: No data available

Density : 5.44 g/cm3 at 25 °C

Water solubility : 69 g/l at 20 °C

480 g/l at 100 °C

Partition coefficient: n-

octanol/water

: Note: No data available

Ignition temperature : Note: Not applicable

Auto-ignition temperature : Note: not auto-flammable

Decomposition temperature : Note: Hazardous decomposition products formed under fire

conditions.

Viscosity, dynamic : Note: Not applicable

Viscosity, kinematic : Note: No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : 271.5 g/mol



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Bulk density : Note: No data available

10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

Conditions to avoid

reactions

: Corrosive in contact with metals

: Protect from contamination.

Keep away from reducing agents.

Incompatible materials to

avoid

: Corrodes aluminium.

Reactions with various metals.

Copper Tin Zinc

Alkali metals

Hazardous decomposition

products

: Fire may cause evolution of: Toxic metal oxide fumes

Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Acute inhalation toxicity : Note: No data available

Acute dermal toxicity : Note: No data available

Skin irritation : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Eye irritation : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Sensitisation : Note: No data available



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Repeated dose toxicity : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Genotoxicity in vitro : Note: No data available

Carcinogenicity : Species: not specified

Note: No data available

Reproductive toxicity : Species: not specified

Note: Classification based on Annex VI of regulation

1272/2008/EC.

Aspiration toxicity : No data available

Further information Note: Symptoms of mercury poisoning are headache,

weakness of memory, loss of appetite, nausea, shortness of

breath and exhaustion.

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish : Note: Classification based on Annex VI of regulation

1272/2008/EC.

aquatic invertebrates

Toxicity to daphnia and other : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Toxicity to algae : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Persistence and degradability

Biodegradability : Note: No data available

Other adverse effects

Additional ecological : The methods for determining biodegradability are not

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information applicable to inorganic substances.

Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

UN/ID No. : UN 1624

Description of the goods : MERCURIC CHLORIDE

Class : 6.1
Packing group : II
Classification Code : T5
Hazard Identification Number : 60
Labels : 6.1

IATA

UN/ID No. : UN 1624

Description of the goods : Mercuric chloride

Class : 6.1
Packing group : II
Labels : 6.1
Packing instruction (cargo : 676

aircraft)

Packing instruction : 669

(passenger aircraft)

Packing instruction : Y644

(passenger aircraft)

IMDG

UN/ID No. : UN 1624

Description of the goods : MERCURIC CHLORIDE

Class : 6.1
Packing group : II
Labels : 6.1
EmS Number 1 : F-A
EmS Number 2 : S-A

Marine pollutant : yes



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15. REGULATORY INFORMATION

National regulatory information

Vessel Safety Law

JP VSL

: Toxic and infectious substances (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached

Table 1)

Aviation Law : Toxic and infectious substances (Article 194 of The

JP AVL

Enforcement Rules of Aviation Law and its Attached Table 1)

Poisonous Substances -

Cabinet Order

: Listed - Regulation also applies to preparations.

JP PS CO

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Substances Subject to be

Notified Names JP MSDSD

Threshold Concentration: 0.1 % wt 315

Substances Subject to be

Indicated Names

JPISHL LR

: Article 18

Threshold limits: 0.3 % wt 315

Fire Service Law : Not relevant

Poisonous and Deleterious

Substances Control Law

: Poisonous substance not for pharmaceutical use

17 Listed

Mercury(II) chloride 7487-94-7

Other international regulations

Notification status

US. Toxic Substances

Control Act

: On TSCA Inventory

(Notification and Assessment) Act

Australia. Industrial Chemical : On the inventory, or in compliance with the inventory

Canada, Canadian

Environmental Protection Act

: All components of this product are on the Canadian DSL

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(CEPA). Domestic Substances List (DSL)

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances

(IECSC)

: On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New

Zealand

: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3*	3
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.



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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group