

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 21-Sep-2010

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Revision Number 2

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

1. Identification				
Product Name	Mercury(I) chloride			
Cat No. :	AC213120000; AC213120050; AC213121000; AC213125000			
Synonyms	Mercurous chloride			
Recommended Use	Laboratory chemicals.			
Uses advised against No Information available Details of the supplier of the safety data sheet				
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99		

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Category 3 Category 4 Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements

Causes skin irritation Causes serious eye irritation May cause respiratory irritation Toxic if swallowed Harmful in contact with skin



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

Rinse mouth

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

Other hazards

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Mercury chloride	10112-91-1	>95

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4. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.			
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Obtain medical attention.			
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.			
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically			

Buitable Extinguishing Media	J. FIIG-IIgilui	ig measures			
	Use water spray, alcohol-re	esistant foam, dry chemical or	carbon dioxide.		
Insuitable Extinguishing Media	No information available	No information available			
Flash Point	No information available				
Method -	No information available				
Autoignition Temperature Explosion Limits	No information available				
Upper	No data available				
Lower Sensitivity to Mechanical Imp	No data available				
Sensitivity to Static Discharg					
Specific Hazards Arising from the Geep product and empty container Hazardous Combustion Products Hydrogen chloride gas Protective Equipment and Precau	away from heat and sources of s	ignition.			
as in any fire, wear self-contained b rotective gear. Thermal decompos			ved or equivalent) and full		
IFPA_ Health 3	Flammability 1	Instability 0	Physical hazards N/A		
	6. Accidental rel	ease measures			
Personal Precautions Invironmental Precautions	Should not be released into	n. Use personal protective equ the environment. See Sectio to the environment. Collect sp			
lethods for Containment and Cl Ip	ean Sweep up or vacuum up sp formation.	illage and collect in suitable c	ontainer for disposal. Avoid dust		
	formation. 7. Handling a	and storage			
	formation. 7. Handling a Wear personal protective e	and storage	entilation. Do not get in eyes, on		
q	formation. 7. Handling a Wear personal protective e skin, or on clothing. Avoid i	and storage quipment. Ensure adequate ve ngestion and inhalation. Avoid	entilation. Do not get in eyes, on		

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mercury chloride	TWA: 0.025 mg/m³ Skin	(Vacated) Ceiling: 0.1 mg/m ³	IDLH: 10 mg/m ³ TWA: 0.05 mg/m ³ Ceiling: 0.1 mg/m ³
Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Mercury chloride	TWA: 0.025 mg/m ³ Skin	TWA: 0.05 mg/m ³	TWA: 0.025 mg/m ³ Skin

Legend

ACGIH - American Conference of Governmental Industrial Hygienists **OSHA** - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	400 °C / 752 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	7.150
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	CI2 Hg2
Molecular Weight	472.08

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Sensitivity to light.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to light.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Hydrogen chloride gas
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

No acute toxicity	information is available for this product

Product Information Component Information		No acute toxicity ir	No acute toxicity information is available for this product				
Componer	1	LD50 Oral	LD50 Oral LD50 Dermal LC50 Inhalation			Inhalation	
Mercury chlor	ide	210 mg/kg (Rat)	210 mg/kg (Rat) 1500 mg/kg (Rat) Not listed				
Toxicologically Syn Products Delayed and immed	C	No information available well as chronic effects from short and long-term exposure					
Irritation		Irritating to eyes, re	Irritating to eyes, respiratory system and skin				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component	CAS-No	D IARC	NTP	ACGIH	OSHA	Mexico	
Mercury chloride	10112-91	-1 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	ts	No information available.					
Developmental Effe	cts	No information ava	No information available.				
Teratogenicity		No information ava	No information available.				
STOT - single expos STOT - repeated ex		Respiratory system None known	Respiratory system None known				
Aspiration hazard		No information ava	No information available				
Symptoms / effects delayed	,both acute	and No information ava	ailable				
Endocrine Disrupto	r Informatio	n No information ava	No information available				
Other Adverse Effe	cts	See actual entry in	See actual entry in RTECS for complete information.				

12. Ecological information

Ecotoxicity Very toxic to aquatic organisms. Do not empty into drains. Do not flush into surface water or sanitary sewer system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	
Mercury chloride	Not listed	Leuciscus idus: 0.5 mg/L 48h	Not listed	0.002 mg/L 48h	
Persistence and Degradability No information available Bioaccumulation/ Accumulation No information available.					
Mobility	No information available.				
	13. Di	isposal considerat	ions		
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.					
14. Transport information					

DOT

UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG	UN2025 MERCURY COMPOUND, SOLID, N.O.S. MERCURY (I) CHLROIDE 6.1 III
UN-No	UN2025
Proper Shipping Name	MERCURY COMPOUND, SOLID, N.O.S.
Hazard Class	6.1
Packing Group	111
IATA	
UN-No	2025
Proper Shipping Name	MERCURY COMPOUND, SOLID, N.O.S.
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	2025
Proper Shipping Name	MERCURY COMPOUND, SOLID, N.O.S.
Hazard Class	6.1
Packing Group	
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Mercury chloride	Х	Х	-	233-307-5	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Mercury chloride	10112-91-1	>95	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component CWA - Hazardous CWA - Reportable Substances Quantities	CWA - Toxic Pollutants CWA - Priority Pollutants
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Mercury chloride	-	-	Х	-
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Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Mercury chloride	Х		-

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No		California Prop. 65		Prop 65 NSRL			Category	
Mercury chloride	10112-91-1		Developm	ental		-		Developmental	
State Right-to-Know									
Component	Massachusetts	New .	Jersey	Penns	ylvania	Illinois		Rhode Island	
Mercury chloride	-		Х	>	<	Х		-	

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D1A Very toxic materials D2B Toxic materials

Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com



16. Other information

Prepared By

Creation Date Revision Date Print Date

21-Sep-2010 03-Jun-2015 03-Jun-2015 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

Revision Summary

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS