

SAFETY DATA SHEET

Creation Date 02-Aug-2010

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

LEAD CHLORIDE

Cat No. :

Synonyms

CAS No

AC193310000; AC193310010; AC193310500; AC193312500

7758-95-4 No information available

Recommended Use Uses advised against

Laboratory chemicals.

Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 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 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

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

Acute oral toxicity Acute Inhalation Toxicity - Dusts and Mists Carcinogenicity Reproductive Toxicity Specific target organ toxicity - (repeated exposure) Target Organs - Kidney, Central pervous system (CNS), Blood	Category 4 Category 4 Category 1B Category 1A Category 1
Target Organs - Kidney, Central nervous system (CNS), Blood.	

Label Elements

Signal Word Danger

Hazard Statements

May cause cancer

May damage the unborn child. Suspected of damaging fertility Causes damage to organs through prolonged or repeated exposure Harmful if swallowed or if inhaled



Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Response IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage 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 WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Lead chloride	7758-95-4	>95

	4. First-aid measures
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion

Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects Notes to Physician

Treat symptomatically

None reasonably foreseeable.

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health 3	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions			ipment as required. Avoid dust k. Evacuate personnel to safe
Environmental Precautions	contaminate ground water	ater or sanitary sewer system. system. Prevent product from c cant spillages cannot be contai	entering drains. Local authorities

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Lead chloride	TWA: 0.05 mg/m ³		IDLH: 100 mg/m ³	TWA: 0.05 mg/m ³
			TWA: 0.050 mg/m ³	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: NIOSH - National Institute for Occupational Safety and 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	501 °C / 933.8 °F
Boiling Point/Range	950 °C / 1742 °F
Flash Point	No information available
Evaporation Rate	Not applicable
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	Not applicable
Specific Gravity	No information available
Solubility	Moderately soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Cl2 Pb
Molecular Weight	278.11

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat.

Incompatible Materi	als	Strong oxidizing ag	gents				
Hazardous Decomp	osition Prod	ucts None under norma	al use conditions				
Hazardous Polymer	ization	Hazardous polyme	Hazardous polymerization does not occur.				
Hazardous Reaction	IS	None under norma	al processing.				
		11. Toxico	ological info	ormation			
Acute Toxicity							
Product Information Mist LC50 Component Informa		Category 4. ATE =	= 1 - 5 mg/l.				
Componen		LD50 Oral		LD50 Dermal		LC50 Inhalation	
Lead chlorid	e	LD50 > 1947 mg/kg(F	Rat) LD50 >	2000 mg/kg (Rat)	N	ot listed	
Toxicologically Syn Products Delayed and immed	-	No information ava		d long-term expo	sure_		
Irritation		No information ava	ailable				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
مامامام المعامام	7758-95-4	4 Group 2A	Deservebbs	A3	Х	Not listed	
Lead chloride			Reasonably Anticipated	_			
IARC (Internationa	al Agency for I	Research on Cancer)	Anticipated IARC (Inter, Group 1 - C Group 2A - Group 2B - NTP: (Natic Known - Km Reasonably Carcinogen ial A1 - Known A2 - Susper A3 - Animal	national Agency for R arcinogenic to Huma Probably Carcinogen nal Toxicity Program own Carcinogen Anticipated - Reaso Human Carcinogen cted Human Carcinogen	Research on Cancer) ns ic to Humans ic to Humans) nably Anticipated to gen	be a Human	
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Ecotoxicity Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.						
Persistence and Degradability Soluble in water Persistence is unlikely based on information available.						
Bioaccumulation/Accumulation	n/ Accumulation No information available.					
Mobility	Will likely be mobile in the environment due to its water solubility.					
13. Disposal considerations						
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.					

12. Ecological information

14. Transport information

DOT	
UN-No	UN2291
Proper Shipping Name	Lead compound, soluble, n.o.s.
Technical Name	Lead chloride
Hazard Class	6.1
Packing Group	III
TDG	
UN-No	UN2291
Proper Shipping Name	Lead compound, soluble, n.o.s.
Hazard Class	6.1
Packing Group	III
ΙΑΤΑ	
UN-No	UN2291
Proper Shipping Name	Lead compound, soluble, n.o.s.
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN2291
Proper Shipping Name	Lead compound, soluble, n.o.s.
Hazard Class	6.1
Packing Group	III
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Lead chloride	7758-95-4	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Lead chloride	7758-95-4	Х	-	231-845-5	Х	Х	Х	Х	Х	KE-21901

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Lead chloride	7758-95-4	>95	0.1

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Lead chloride	Х	10 lb	Х	-

Clean Air Act

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

OSHA - Occupational Safety and Not applicable Health Administration

	Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals			
	Lead chloride	30 µg/m ³ Action Level	-			
		50 μg/m³ TWA				
CERCLA		naterial, as supplied, contains one or more substances regulated as a hazardous ance under the Comprehensive Environmental Response Compensation and Liabi				
		ERCLA) (40 CFR 302)				

Component	Hazardous Substances RQs	CERCLA EHS RQs
Lead chloride	10 lb	-

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Lead chloride	7758-95-4	Carcinogen	-	Carcinogen

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Lead chloride	Х	Х	Х	Х	Х

U.S. Department of Transportation

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

This product does not contain any DHS chemicals.

Security

Other International Regulations

U.S. Department of Homeland

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Annex I - Y31

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Lead chloride	-	Use restricted. See item 30. (see link for restriction details) Use restricted. See item 63. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	_

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

7758-95-4

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Lead chloride	7758-95-4	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
Component	UNU NU	(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste)
			Qualifying Quantities		(1142414040 114010)
		for Major Accident	for Safety Report		

Not applicable

Not applicable

Not applicable

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	02-Aug-2010 24-Dec-2021 24-Dec-2021 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

Lead chloride

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

End of SDS