

SAFETY DATA SHEET

Creation Date 22-Jun-2010

Revision Date 09-Feb-2024

Revision Number 8

1. Identification

Product Name

Lead Acetate Trihydrate

Cat No. : L33-250; L33-500

CAS No Synonyms

Recommended Use Uses advised against Lead sugar; Lead (II) acetate trihydrate (Certified ACS) Laboratory chemicals.

st Food, drug, pesticide or biocidal product use.

6080-56-4

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

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 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)

Serious Eye Damage/Eye Irritation Carcinogenicity Reproductive Toxicity Specific target organ toxicity - (repeated exposure) Target Organs - Kidney, Liver, Blood.

Category 1 Category 1B Category 1A Category 2

Label Elements

Signal Word Danger

Hazard Statements Causes serious eye damage May cause cancer

May damage the unborn child. Suspected of damaging fertility May cause damage to organs through prolonged or repeated exposure



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 Do not breathe dust/fume/gas/mist/vapors/spray **Response** IF exposed or concerned: Get medical attention/advice **Eyes** 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 or doctor/physician **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 (II) acetate, trihydrate	6080-56-4	>95
Lead acetate	301-04-2	-

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	None reasonably foreseeable. Causes severe eye damage.	

Notes to Physician

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

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

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

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Carbon monoxide (CO). Carbon dioxide (CO₂). lead oxides.

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 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.		
Environmental Precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.		

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. Avoid dust formation. Do not get in eyes, on skin, or on clothing. 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. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases.
	8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Lead (II) acetate, trihydrate			IDLH: 100 mg/m ³	
			TWA: 0.050 mg/m ³	
Lead acetate			IDLH: 100 mg/m ³	
			TWA: 0.050 mg/m ³	

Legend

NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.	
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.	
Recommended Filter type:	Particulates filter conforming to EN 143.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties			
Physical State	Solid		
Appearance	White		
Odor	vinegar-like		
Odor Threshold	No information available		
рН	5.5-6.5 5% aq.solution		
Melting Point/Range	75 °C / 167 °F		
Boiling Point/Range	No information available		
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	Soluble in water		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	> 100°C		
Viscosity	Not applicable		
Molecular Formula	C4 H6 O4 Pb . 3 H2 O		
Molecular Weight	379.33		

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability	Stable under normal conditions. Sensitive to air.	
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to air.	
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), lead oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

Component Information				
Component	LD50 Oral	LD50 Dermal	LC50 I	nhalation
Lead (II) acetate, trihydrate	LD50 = 4665 mg/kg (Rat)	Not listed	No	t listed
Toxicologically Synergistic Products Delayed and immediate effe	No information available	short and long-term expo	osure_	
rritation	No information available	No information available		
Sensitization	No information available	No information available		
Carcinogenicity	The table below indicates w	whether each agency has lis	sted any ingredient a	as a carcinogen.
Component CAS		TP ACGIH	OSHA	Mexico

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Lead (II) acetate,	6080-56-4	Not listed	Reasonably	Not listed	Х	Not listed
trihydrate			Anticipated			
Lead acetate	301-04-2	Not listed	Reasonably	Not listed	Х	Not listed
			Anticipated			

NTP: (National Toxicity Program)

NTP: (National Toxicity Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinoger

Mutagenic Effects	No information available
Reproductive Effects	Possible risk of impaired fertility.
Developmental Effects	May cause harm to the unborn child.
Teratogenicity	May cause harm to the unborn child.
STOT - single exposure STOT - repeated exposure	None known Kidney Liver Blood
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.
	12. Ecological information

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. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	May persist based on information available.
Bioaccumulation/ 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.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Lead acetate - 301-04-2	U144	-

	14. Transport information
DOT	
UN-No	UN1616
Proper Shipping Name	LEAD ACETATE
Hazard Class	6.1
Packing Group	
<u>_TDG</u>	
UN-No	UN1616
Proper Shipping Name	LEAD ACETATE
Hazard Class	6.1
Packing Group	
IATA	
UN-No	UN1616
Proper Shipping Name	LEAD ACETATE
Hazard Class	6.1
Packing Group	
IMDG/IMO	
UN-No	UN1616
Proper Shipping Name	LEAD ACETATE
Hazard Class	6.1
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Lead (II) acetate, trihydrate	6080-56-4	-	-	-
Lead acetate	301-04-2	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

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 (II) acetate, trihydrate	6080-56-4	-	-	-	Х	Х		Х	Х	-
Lead acetate	301-04-2	Х	-	206-104-4	Х	Х	Х	Х	Х	KE-21888

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

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Note that PBT chemicals are not eligible for the de minimis exemption. For these chemicals, supplier notification limits are provided.

> 0 % = no low concentration cut-off set, supplier notification limit applies.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Lead (II) acetate, trihydrate	6080-56-4	>95	> 0 %	RT = 100 lb
Lead acetate	301-04-2	-	> 0 %	RT = 100 lb

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Lead (II) acetate, trihydrate	-	-	Х	-
Lead acetate	Х	-	Х	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Lead (II) acetate, trihydrate	Х		-
Lead acetate	Х		-

OSHA - Occupational Safety and Not applicable Health Administration

CERCLA

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Lead acetate	10 lb	-	10 lb 4.54 kg

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Lead (II) acetate,	6080-56-4	Carcinogen	-	Carcinogen
trihydrate				
Lead acetate	301-04-2	Carcinogen	23 µg/day	Carcinogen

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Lead (II) acetate, trihydrate	-	Х	Х	Х	-
Lead acetate	Х	Х	Х	Х	-

U.S. Department of Transportation

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

U.S. Department of Homeland	This product does not contain any DHS chemicals.
Security	

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	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 (II) acetate, trihydrate	6080-56-4	-	Use restricted. See item 30. (see http://eur-lex.europa.eu/Le xUriServ/LexUriServ.do?ur i=CELEX:32006R1907:EN: NOT for restriction details)	
Lead acetate	301-04-2	-	Use restricted. See item 72. (see link for restriction details) Use restricted. See item 30. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) Use restricted. See item 63. (see link for restriction details)	SVHC candidate list - Toxic for reproduction (Article 57 c)

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

REACH links

https://echa.europa.eu/authorisation-list https://echa.europa.eu/substances-restricted-under-reach https://echa.europa.eu/candidate-list-table

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous
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					Substances (RoHS)
Lead (II) acetate, trihydrate	6080-56-4	Not applicable	Not applicable	Not applicable	Not applicable
Lead acetate	301-04-2	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
Lead (II) acetate, trihydrate	6080-56-4	Not applicable	Not applicable	Not applicable	Annex I - Y31
Lead acetate	301-04-2	Not applicable	Not applicable	Not applicable	Annex I - Y31

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	22-Jun-2010
Revision Date	09-Feb-2024
Print Date	09-Feb-2024
Revision Summary	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

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