

SAFETY DATA SHEET

Preparation Date: No data available

Revision Date: 05/12/2015

Revision Number: G1

Product identifier

Product code: L1040
Product Name: LEAD ACETATE, TRIHYDRATE, CRYSTAL, REAGENT, ACS

Other means of identification

Synonyms: Acetic acid, lead (+2) salt trihydrate
Bis(acetato)trihydroxytrilead
Bleiazetat (German)
Lead acetate
Lead acetate trihydrate
Lead diacetate trihydrate
Lead(II) acetate trihydrate
Lead (II) trihydrate
Sugar of Lead
UN1616
CAS #: 6080-56-4
RTECS # OF8050000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Textile printing. Textile dye.
Uses advised against No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Carcinogenicity	Category 1B
Reproductive toxicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2

Label elements

Danger

Hazard statements

May cause cancer
May damage fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if swallowed

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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Lead Acetate, Trihydrate 6080-56-4	6080-56-4	100	*

4. FIRST AID MEASURES

First aid measures

General Advice:

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. If symptoms persist, call a physician.

Eye Contact:

Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

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Inhalation: If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye irritation. May cause skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Water spray. Carbon dioxide (CO₂). Foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides, some metallic oxides

Specific hazards: May be combustible at high temperatures
When heated to decomposition it emits acrid smoke and irritating fumes

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Avoid dust formation. Evacuate personnel to safe areas. All equipment used when handling the product must be grounded. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials. Remove all sources of ignition. All equipment used when handling the product must be grounded.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapours/dust. Do not ingest. When using do not smoke. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Acids. Bromates. Phenol. choral hydrate. sulfides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Lead Acetate, Trihydrate - 6080-56-4	None	None	None	None

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Lead Acetate, Trihydrate - 6080-56-4	None	None	None	None

Australia and Mexico

Components	Australia	Mexico
Lead Acetate, Trihydrate 6080-56-4	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. apron. Gloves.

Respiratory protection:	Wear respirator with dust filter.. Be sure to use an approved/certified respirator or equivalent..
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.	Appearance: Crystalline solid.	Color: White.
Odor: Acetic acid (vinegar) -like.	Taste No information available	Molecular/Formula weight: 379.34 g/mol
Formula: C ₄ H ₆ O ₄ Pb·3H ₂ O	Flash point (°C): No data available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to: Not available	Lower Explosion Limit (%): No information available	Upper Explosion Limit (%): No information available
Autoignition Temperature (°C/°F): No information available	pH: No information available	Melting point/range(°C/°F): 75°C/ 167°F
Boiling point/range(°C/°F): 100°C/ 212°F	Decomposition temperature(°C/°F): 100°C/ 212°F	Bulk density: No information available
Specific gravity: 2.55	Density (g/cm³): No information available	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate: No information available	Vapor density: No information available	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: No information available
Miscibility: No information available	Solubility: Soluble in cold water	

10. STABILITY AND REACTIVITY

Reactivity

Incompatibility with bromates, phenol, chloral hydrate, sulfides, and acids

Chemical stability

Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Acids. Bromates. Phenol. choral hydrate. sulfides.

Hazardous decomposition products: Carbon oxides.

Other Information

Corrosivity: No information available

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Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Skin. Inhalation. Ingestion.

Acute Toxicity

Component Information

Lead Acetate, Trihydrate - 6080-56-4

LD50/oral/rat = 4665 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 4665 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:

May cause skin irritation.

Eye Contact:

May cause eye irritation. Lead acetate can produce encrustation of the cornea with direct eye exposure.

Inhalation May cause respiratory tract irritation (local irritaiton of the bronchia, and lungs). Symptoms suchas metallic taste, chest and abdominal pain may occur. Can be absorbed through the respiratory system, and increased lead blood levels may follow resulting in systemic effects..

Ingestion May cause gastrointestinal tract irritation with nausea, vomiting, abdominal cramps/tenderness, hypermolity, diarrhea, lead cholic, metallic taste, malaise, loss of appetite/anorexia. It may also affect behavior/central nervous system/nervous system (headache, depression, muscle weakness, irritability, insomnia, dizziness, reduced memory, mood and personality changes, convulsions, somnolence, coma, and death in extreme cases), metabolism (anorexia), liver (liver injury, elevated liver enzymes), kidneys (acute renal tubular injury/renal failure noted by proteininuria, glycosuria, and aminoaciduria), blood (hemolytic anemia).

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Skin: May be absorbed through the skin on prolonged exposure and cause systemic effects of chronic lead poisoning. See symptoms of ingestion.
Ingestion or Inhalation: It may cause chronic lead poisoning. The hallmarks of chronic lead poisoning are effect on the /central nervous system and peripheral nervous system (anxiety, headache, malaise, fatigue, irritability, forgetfulness, insomnia, lassitude, seizures, motor weakness which may lead to paralysis of the extensor muscles fo the wrist and ankles), anemia, kidney damage (interstitial nephritis, reduced glomerular filtration rate, acute renal failure noted by proteinuria, glycosuria, aminoaciduria). Other symptoms include hypertension or hypotension, metallic taste, abdominal tenderness, colic, constipation, anorexia and weight loss and/or malnutrition, facial pallor, hearing loss, elevated liver enzymes (liver function tests), hyperuricemia (increased uric acid levels)and gout, and possibly a lead line in the gum margins..

Sensitization: No information available

Mutagenic Effects: May affect genetic material based on animal test data

Carcinogenic effects: May cause cancer based on animal test data.

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Lead Acetate, Trihydrate	Not listed	Monograph 87 [2006] Supplement 7 [1987] Organolead compounds	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects: May cause adverse reproductive effects based on animal data. Expected to cross the placenta. It is excreted in human milk.

Developmental Effects: No information available

Teratogenic Effects: May cause birth defects (teratogenic effects) based on animal test data

Specific Target Organ Toxicity

STOT - single exposure	No information available
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Target Organs:	Blood. Kidneys. Nervous system. Reproductive System. Central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Very toxic to aquatic organisms.

Lead Acetate, Trihydrate - 6080-56-4

Freshwater Algae Data: 44 mg/l 24 hrs (Algae (Chlorococcales(green algae order)))

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Lead Acetate, Trihydrate	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No:	UN1616
Proper Shipping Name:	Lead acetate
Hazard Class:	6.1
Subsidiary Risk:	
Packing Group:	III
ERG No:	151
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Symbol(s):	P, R2

TDG (Canada)

UN-No:	UN1616
Proper Shipping Name:	Lead acetate
Hazard Class:	6.1
Subsidiary Risk:	No information available

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Packing Group: III
Description: No information available

ADR

UN-No: UN1616
Proper Shipping Name: Lead acetate
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: UN1616
Proper Shipping Name: Lead acetate
Hazard Class: 6.1
Subsidiary Risk: P
Packing Group: III
Description: No information available
IMDG Page: No information available
Marine Pollutant No information available
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID

UN-No: UN1616
Proper Shipping Name: Lead acetate
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Classification Code: No information available
Description: No information available

ICAO

UN-No: UN1616
Proper Shipping Name: Lead acetate
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

IATA

UN-No: UN1616
Proper Shipping Name: Lead acetate
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 6L
Description: No information available

15. REGULATORY INFORMATION

International Inventories

Product code: L1040

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Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Lead Acetate, Trihydrate	Not Listed	Not present	Present	Present (2)-693	Present	Present	Not present

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Lead Acetate, Trihydrate	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
Lead Acetate, Trihydrate	None	None	None	None	None

U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Lead Acetate, Trihydrate	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

D1B Toxic materials

D2A Very toxic materials

Lead Acetate, Trihydrate

D1B D2A

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
Lead Acetate, Trihydrate	Not Listed	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Lead Acetate, Trihydrate	Not listed	Not listed

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EU Classification

R-phrases

R33 - Danger of cumulative effects.

R61 - May cause harm to the unborn child.

R63 - Possible risk of harm to the unborn child.

R20/22 - Harmful by inhalation and if swallowed.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53 - Avoid exposure - obtain special instructions before use.

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

Components	Classification	Concentration Limits:	Safety Phrases
Lead Acetate, Trihydrate		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T - Toxic

N - Dangerous for the environment.



16. OTHER INFORMATION

16. OTHER INFORMATION

Revision Date: 05/12/2015
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet