

MATERIAL SAFETY DATA SHEET



LEAD STEARATE

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Lead Stearate
CAS Number: 1072-35-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use: Laboratory chemicals, Industrial & for professional use only

1.3 Details of the supplier of the safety data sheet

Company name: Bio-Chem Chemicals
5455 Nicholson Road, Science Market
Ambala Cantt, 133001 - Haryana
+91 82952 41953
info@biofinechemical.com - www.biofinechemical.com

1.4 Emergency telephone number

Emergency telephone: +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Acute toxicity - Oral, Category 4
Acute toxicity - Inhalation, Category 4
Reproductive toxicity, Category 1A
Specific target organ toxicity \u2013 repeated exposure, Category 2
Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1
Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

2.2 Label elements

Pictogram(s)



Signal Word

Danger

Hazard Statement(s)

H302 Harmful if swallowed
H332 Harmful if inhaled
H360 May damage fertility or the unborn child
H373 May cause damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)

Prevention

P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P271	Use only outdoors or in a well-ventilated area
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P280	Wear protective gloves/protective clothing/eye protection/face protection
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P273	Avoid release to the environment

Response

P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.
P330	Rinse mouth
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/if you feel unwell
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage

Storage

P405	Store locked up.
------	------------------

Disposal

P501	Dispose of contents/container
------	-------------------------------

2.3 Other hazards which do not result in classification

None

Section 3: Composition/information on ingredients

3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Lead Stearate	Lead Stearate	1072-35-1	none	100%

Section 4: First aid measures

4.1 Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance

If Inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

In case of skin contact

Wash off with soap and plenty of water. Consult a physician

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

4.2 Most important symptoms and effects, both acute and delayed

INHALATION: Joint and muscle pains, headache, dizziness, and insomnia. Weakness, frequently of extensor muscles of hand and wrist (unilateral or bilateral). Heavy contamination - brain damage. Stupor progressing to coma - with or without convulsion, often death. Excitation, confusion, and mania less common. Cerebrospinal pressure may be increased. INGESTION: Abdominal pain, diarrhoea, constipation, loss of appetite, muscular weakness, headache, blue line on gums, metallic taste, nausea, and vomiting. (USCG, 1999)

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: Fire Extinguishing Agents: Chemical, foam, CO 2, water

5.2 Special hazards arising from the substance or mixture

Special Hazards of Combustion Products: At high temperature toxic fumes are emitted. Behaviour in Fire: Possibility of explosion exists under dusty conditions

5.3 Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

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

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

No data available

Biological limit values

No data available

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

8.3 Personal protective equipment

Eye/face protection: Use equipment for eye protection with side-shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Wear dust mask when handling large quantities

Thermal Hazards: No data available

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	white powder
Colour	no data available
Odour	no data available
Melting point/ freezing point	105-112\°C
Boiling point or initial boiling point and boiling range	359.4\°C at 760 mmHg
Flammability	no data available
Lower and upper explosion limit / flammability limit	no data available
Flash point	162.4\°C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water (log value)	no data available
Vapour pressure	no data available
Density and/or relative density	1.323
Relative vapour density	no data available
Particle characteristics	no data available

Section 10: Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical Stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

LEAD STEARATE has weak oxidizing or reducing powers. Redox reactions can however still occur. The majority of compounds in this class are slightly soluble or insoluble in water. If soluble in water, then the solutions are usually neither strongly acidic nor strongly basic. These compounds are not water reactive.

10.4 Conditions to avoid	No data available
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	No data available

Section 11: Toxicological Information

Acute Toxicity

Oral	No data available
Inhalation	No data available
Dermal	No data available
Skin corrosion/Irritation	No Data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT single exposure	No data available
STOT repeated exposure	No data available
Aspiration hazard	No data available

Section 12: Ecological Information

12.1 Toxicity

Ecotoxicity effects

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates:	No data available
Toxicity to algae	No data available
Toxicity to microorganisms	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Other adverse effects	No data available

Section 13: Disposal considerations

13.1 Disposal

Product: The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

Section 14: Transport Information

14.1 UN Number

ADR/RID: UN2291

IMDG: UN2291

IATA: UN2291

14.2 UN Proper shipping name

ADR/RID: LEAD COMPOUND, SOLUBLE, N.O.S.

IMDG: LEAD COMPOUND, SOLUBLE, N.O.S.

IATA: LEAD COMPOUND, SOLUBLE, N.O.S.

14.3 Transport hazard class(es)

ADR/RID: unknown

IMDG: Unknown

IATA: Unknown

14.4 Packing group, if applicable

ADR/RID: Unknown

IMDG: Unknown

IATA: Unknown

14.5 Environmental hazards

ADR/RID: Yes

IMDG: Yes

IATA: Yes

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II or MARPOL 73/78 and the IBC Code

No data available

Section 15: Regulatory Information

Chemical Name	Common names and synonyms	CAS number	EC Number
Lead Stearate	Lead Stearate	1072-35-1	None
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed
EC Inventory			Listed
United States Toxic Substances Control Act (TSCA) Inventory			Listed
China Catalogue of Hazardous chemicals 2015			Not Listed
New Zealand Inventory of Chemicals (NZIoC)			Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed
Vietnam National Chemical Inventory			Listed
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed

Section 16: Other Information

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%