Multichem Exports LLP.
1315, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 6301006301
E: sales@multichemexports.com
www.multichemexports.com

MULTI CHEM EXPORTS
YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

LEAD NITRATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	10031-22-8
EC number:	233-084-4
1.2 SYNONYMS:	• PbF_2 • Lead(II) fluoride • Plumbous fluoride

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute toxicity, oral (Category 4) Acute toxicity, inhalation (Category 4) Serious eye damage, (Category 1) Skin sensitisation, (Category 1B) Carcinogenicity, (Category 2) Specific target organ toxicity – repeated exposure, organs (Category 2) Reproductive toxicity, (Category 1A) Short-term (acute) aquatic hazard, (Category 1) Long-term (chronic) aquatic hazard, (Category 1)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H302 + H332:** Harmful if swallowed or if inhaled. **H317:** May cause an allergic skin reaction. **H318:** Causes serious eye damage. **H351:** Suspected of causing cancer.

Multichem Exports LLP.
1315, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 6301006301
E: sales@multichemexports.com
www.multichemexports.com

MULTI CHEM EXPORTS
YOUR CHEMICAL PARTNER

	H360Df: May damage the unborn child. Suspected of damaging fertility. **H372:** Causes damage to organs (Blood, Central nervous system, Immune system, Kidney) through prolonged or repeated exposure. **H410:** Very toxic to aquatic life with long lasting effects.
Precautionary Statements:	**P261:** Avoid breathing dust. **P264:** Wash skin thoroughly after handling. **P280:** Wear protective gloves/protective clothing/eye protection/face protection. **P273:** Avoid release to the environment. **P303+P361+P353:** IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. **P301+P312:** IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. **P404:** Store in a closed container. **P501:** Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	can cause severe respiratory irritation, coughing, shortness of breath, and long-term exposure may lead to chronic lead poisoning affecting the lungs and nervous system.
Ingestion:	can cause nausea, vomiting, abdominal pain, diarrhea, and with repeated or high exposure, severe

Multichem Exports LLP.
1315, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 6301006301
E: sales@multichemexports.com
www.multichemexports.com

	lead poisoning affecting the kidneys, nervous system, and blood.
Skin Contact:	can cause irritation, redness, and, with prolonged or repeated exposure, lead can be absorbed through the skin, potentially leading to systemic toxicity.
Eye contact:	can cause severe irritation, redness, pain, and possible damage to the cornea.
Chronic Exposure:	can lead to accumulation of lead in the body, causing anemia, kidney damage, neurological disorders, cognitive deficits, reproductive toxicity, and other long-term systemic effects.
Aggravation of pre-existing conditions:	can aggravate pre-existing conditions such as kidney disease, liver disorders, hypertension, respiratory problems, and neurological or developmental disorders.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 10099-74-8 LEAD NITRATE
Identification number(s):	EC number: 233-245-9

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician.

Multichem Exports LLP.
1315, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 6301006301
E: sales@multichemexports.com
www.multichemexports.com

After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute exposure can cause nausea, vomiting, abdominal pain, diarrhea, and respiratory or eye irritation, while delayed or chronic effects include anemia, kidney and liver damage, neurological impairments, and cognitive deficits.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide, dry chemical, Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	lead oxides, nitrogen oxides.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating

	to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

Multichem Exports LLP.
1315, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 6301006301
E: sales@multichemexports.com
www.multichemexports.com

MULTI CHEM EXPORTS
YOUR CHEMICAL PARTNER

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
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.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	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. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Crystalline powder
Colour:	White
Odour:	Odourless
pH-value:	5
Melting point/Melting range:	470°C
Boiling point/Boiling range:	Not determined

Multichem Exports LLP.
1315, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 6301006301
E: sales@multichemexports.com
www.multichemexports.com

MULTI CHEM EXPORTS
YOUR CHEMICAL PARTNER

Flammability (solid, gaseous):	Non-Flammable
Ignition temperature:	No data available
Decomposition temperature:	470°C
Self-igniting:	None
Flash point:	No data available
Danger of explosion:	None
Explosion limits: Lower:	Not determined
Explosion limits: Upper:	Not determined
Vapour pressure:	Not determined
Density at 20 °C:	4.53 g/cm^3
Relative density:	4.53
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in / Miscibility with-·water at 20 °C:	soluble
Partition coefficient:(n-octanol/water)	No data available
Viscosity:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can react violently with reducing agents, combustible materials, and strong acids, potentially causing fire or explosion.
10.4 Conditions to avoid	Heat, open flames, sparks, moisture, water.
10.5 Incompatible materials	Strong reducing agents, strong acids and bases, Ammonia and amines.
10.6 Hazardous decomposition products	Lead oxides, nitrogen oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): no data available **LD50** (Dermal, Rabbit): no data available

Multichem Exports LLP.
1315, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 6301006301
E: sales@multichemexports.com
www.multichemexports.com

MULTI CHEM EXPORTS
YOUR CHEMICAL PARTNER

	LC50 (Inhalation Rat): no data available
Skin corrosion/Irritation:	Causes serious skin irritation
Serious eye damage/irritation:	Causes serious eye damage
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	Suspected of causing cancer
Reproductive toxicity:	May damage fertility
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	May cause damage to organs through repeated exposure.
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Not biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): no data available EC50(daphnia): no data available ErC50(algae): no data available
12.2 Persistence and degradability:	Not Biodegradable
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging **Recommendation:**	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, mild detergents or soaps, sodium thiosulfate solution.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1469
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	LEAD NITRATE

14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	5.1 (6.1)
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	Yes
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified in listed substances as environmental hazard.
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.