



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lead (II) Chloride**
PRODUCT NUMBER: 2221
CAS NUMBER: 7758-95-4
SYNONYMS: Lead(2+) chloride, lead dichloride, Plumbous chloride

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H302+H332	Harmful if swallowed or 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 Phrases

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid released to the environment.
P281	Use personal protective equipment as required.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

HMIS CLASSIFICATION:

Health: 2 Chronic: * Fire: 0 Reactivity Hazard: 0

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: May cause slight to mild irritation of the eyes.

SKIN CONTACT: May cause slight to mild irritation to the skin.

INHALATION: Harmful by inhalation. Large dust exposure may cause seizures, coma, and cardio respiratory arrest.

INGESTION: Harmful if swallowed. Ingestion of dust may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.

CHRONIC HEALTH EFFECTS: Possible risk of impaired fertility. May cause cancer. The chronic effects include diarrhea, loss of appetite, insomnia, weakness, muscle pain, headache, dizziness, and anemia. The subject of chronic lead poisoning can not be adequately addressed in this document.

ACUTE HEALTH EFFECTS: Harmful by inhalation and if swallowed. Possible risk of harm to the unborn child. Danger of cumulative effects.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: PbCl_2

Molecular Weight: 278.11

CHEMICAL NAME	CAS#	%
Lead (II) Chloride	7758-95-4	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen chloride gas and lead oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released to the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Spills can be mixed with vermiculite, swept up and placed in suitable container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid formation of dusts and aerosols.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Lead (II) Chloride	0.05 mg/m ³	TLV	ACGIH
	0.05 mg/m ³	PEL	OSHA
	0.05 mg/m ³	REL	NIOSH

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Beige-white powder

ODOR: None

MOLECULAR WEIGHT: 278.11

BOILING POINT: 950° C

MELTING POINT: 501° C

SPECIFIC GRAVITY: 5.85 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None

INCOMPATIBILITY: Strong oxidizing agent and strong acids

DECOMPOSITION PRODUCTS: Hydrogen chloride and lead oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – rat - 1947 mg/kg. LD50 Intraperitoneal – rat – 125mg/kg. LDLo Oral – guinea pig – 1500mg/kg. TDLo Intraperitoneal – rat – 70 mg/kg/7D-1. TDLo Oral – rat – 570mg/kg. TDLo Oral – rat – 201mg/kg. TDLo Oral – rat – 141gm/kg. TDLo Oral – rat – 200 ppm. TDLo Intravenous – mouse – 40mg/kg. TDLo Intravenous – mouse – 20mg/kg. TDLo Intravenous – monkey – 125mg/kg Human HeLa cell; DNA inhibition: 250µmol/L. Human HeLa cell; mutation test system-not otherwise specified: 250µmol/L. Human lymphocyte; Sister chromatic exchange: 100ng/cm³.

CARCINOGENIC EFFECTS: Probably carcinogenic to humans. Reasonably anticipated to be a human carcinogen.

MUTAGENIC EFFECTS: Not available

TETRAOGENIC EFFECTS: Not available

RTECS: OF9450000

Lead salts have been reported to cross the placenta and to induce embryo- and feto- mortality. They also have teratogenic effect in some animal species. No teratogenic effects have been reported with exposure to organometallic lead compounds. Adverse effects of lead on human reproduction, embryonic and fetal development, and postnatal (e.g. mental) development have been reported. Excessive exposure can affect blood, nervous, and digestive system. The synthesis of hemoglobin is inhibited and results in anemia. If left untreated, neuromuscular dysfunction, possible paralysis, and encephalopathy can result. Additional symptoms of overexposure include: joint and muscle pain, weakness of extensor muscles (frequently the hand and wrist), headache, dizziness, abdominal pain, diarrhea, constipation, nausea, vomiting, blue line on the gums, insomnia, and metallic taste. High body level product increased cerebrospinal pressure, brain damage, and stupor leading to coma and often death. May cause convulsions.

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

AQUATIC VERTEBRATE: LC50 – Pimephales promelas (fathead minnow) – 0.81mg/L – 96h

AQUATIC INVERTEBRATE: EC50 – Daphnia magna (water flea) – 0.45mg/L – 48h

TERRESTRIAL: EC50 – Skeletonema costatum – 0.019 mg/L – 72h

Not readily biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

DOT: UN2291

Lead compounds, soluble, n.o.s.

(Lead (II) chloride)

CLASS 6.1

PG III

IATA: UN2291

Lead compounds, soluble, n.o.s.

(Lead (II) chloride)

CLASS 6.1

PG III

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 302/304: Not Listed

SARA 311/312: Acute Health Hazard, Chronic Health Hazard

SARA (TITLE 313): Not Listed

CALIFORNIA PROP. 65: Not Listed

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Lead (II) chloride

NEW JERSEY RIGHT TO KNOW COMPONENTS: Lead (II) chloride

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Lead (II) chloride

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 01/15

SDS DEPT.