Material Safety Data Sheet

Lead Chloride (PbCl2) (RXSOL-19-1929-025)

1. Product and Company Identifaction

Product Name	: Lead Chloride (PbCl2)
Part Number	: RXSOL-19-1929-025

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

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Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EINECS No	Concentration
Lead dichloride	7758-95-4	231-845-5	= 100 %

Hazardous ingredients according to Regulation (EC) No 1272/2008

3. Hazards Identification

Signal Word	Danger
Hazard Statement	H302 + H332 :Harmful if swallowed or if inhaled H351 :Suspected of causing cancer. H360Df :May damage the unborn child. Suspected of damaging fertility. H372 :Causes damage to organs through prolonged or repeated exposure. H410 : Very toxic to aquatic life with long lasting effects.
Precautionary statements - prevention	P201 :Obtain special instructions before use P260 :Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 :Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 + P330 :IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P308 + P313 :IF exposed or concerned: Get medical advice/ attention.
Supplemental Hazard Statements	none

4. First Aid Measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	Flush eyes with water as a precaution.
Skin Contact	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire-fighting Measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	Hydrogen chloride gas, Lead oxides.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	No data available

6. Accidental Release Measures

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.
Enviromental Precaution	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and Storage

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.
Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls and personal protection

Engineering Control	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal Protection	Eye/face protection: Face shield and safety glasses Use equipment for eye protection 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: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties

Form	Powder
Colour	Beige
Odour	Odourless
Odour Threshold	No Data Available
pH	No Data Available

Melting point/freezing Point	Melting point/range: 501 °C - lit.
Initial boiling point and boiling range	950 °C - lit.
Flash point	Not applicable
Evaporation rate	No data available
Upper/Lower flammability or explosion limit	No data available
Vapour pressure	1 hPa at 547 °C
Vapour density	No data available
Relative density	5,85 g/mL at 25 °C
Water solubility	10.000 g/l at 19,9 °C - OECD Test Guideline 105
Partition coefficient: octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10. Stability and reactivity

Recativity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Incompatible materials	Strong oxidizing agents, Strong acids
Hazardous Decomposition	Other decomposition products - No data available In the event of fire: see section 5
Condition to Avoid	No data available

11. Toxicological information

Acute toxicity	LD50 Oral - Rat - > 1.947 mg/kg
Eyes	No data available
Skin	Skin - reconstructed human epidermis (RhE) Result: No skin irritation (EPISKIN Human Skin Model Test)
Carcinogenicity	IARC: 2A - Group 2A: Probably carcinogenic to humans (Lead dichloride)
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure. - Central nervous system, Kidney, Blood
Aspiration hazard	No data available
Additional Information 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 systems. 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 the 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 levels produce increased cerebrospinal pressure, brain damage, and stupor leading to coma and often death. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

Environmental Effects	No data available
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 0,81 mg/l - 96 h

Toxicity to daphnia and others aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0,45 mg/l - 48 h
Toxicity to algae	EC50 - Skeletonema costatum - 0,019 mg/l - 72 h
Biodegradability	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	Very toxic to aquatic life with long lasting effects.

13. Disposal considerations

Waste treatment methods	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging	Dispose of as unused product.

14. Transport information

UN Number	ADR/RID: 2291	IMDG: 2291	IATA: 2291
Proper shipping name	ADR/RID: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead dichloride) IMDG: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead dichloride) IATA: Lead compound, soluble, n.o.s. (Lead dichloride)		
Transport hazard class(es)	ADR/RID: 6.1	IMDG: 6.1	IATA: 6.1
Packaging group	ADR/RID: III	IMDG: III	IATA: III
Environmental hazards	ADR/RID: yes	IMDG Marine pollutant: yes	IATA: no
Special precautions for user	No data available		

15. Regulatory information

Regulations	IThis safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Authorisations and/or restrictions on use	REACH - Restrictions on the manufacture, placing on : Lead dichloride the market and use of certain dangerous substances, preparations and articles (Annex XVII).
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out.

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if RX Marine International has been advised of the possibility of such damages. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.