

**COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED**

**CIN: U21009KA2023PTC179006**

**Registered address:** FFK Towers, #445, 2nd & 3rd Floor, 17th Cross Road, Sector 4,

HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

**Email:** info@scimplify.com

**Website:** www.scimplify.com



**MATERIAL SAFETY DATA SHEET**

**PHOSPHORUS PENTACHLORIDE (PCL5)**

| 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION   |   |
|--|---|
| PRODUCT NAME   | Phosphorus Pentachloride (PCL5)   |
| MANUFACTURER NAME AND ADDRESS  | Contact Information:<br>Shreeyansh Labs Private Limited.<br>Survey No 228/9, Plot No 43/A. Industrial Park, Kucharam - 502336. Manoharabad Mandal, Medak Dist. Telangana State. India<br>Emergency Contact No: +919866267813<br>Other Contact No: +919440912277 |
| 2. CHEMICAL COMPOSITION/ OTHER INFORMATION   |   |
| CHEMICAL NAME  | Phosphorus Pentachloride  |
| CAS No.  | 10026-13-8  |
| Chemical Formula   | PCL5  |
| % by weight  | 100   |
| 3. HAZARDS IDENTIFICATION  |   |
| <b>Potential Acute Health Effects:</b><br><br>Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive), of eye contact (corrosive). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, occasionally, blistering.<br><br><b>Potential Chronic Health Effects:</b><br><br>CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.<br>TERATOGENIC EFFECTS: Not available. |   |

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**DEVELOPMENTAL TOXICITY:** Not available. The substance is toxic to mucous membranes. The substance may be toxic to kidneys and liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage. Repeated exposure to a highly toxic material may produce general deterioration of health by and accumulation in one or many human organs.

**4. FIRST AID**

|                               |  |
|-------------------------------|--|
| In case of contact with skin  | Wash with disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.  |
| In case of contact with eyes  | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.   |
| In case of inhalation         | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.   |
| In case of serious inhalation | Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. <b>WARNING:</b> It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention |
| In case of Ingestion          | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.   |
| In case of serious ingestion  | Not available  |

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| <b>5. FIRE FIGHTING</b>                             |   |
|---|---|
| Flammability of the Product                         | Non-flammable   |
| Auto-Ignition Temperature                           | Not applicable  |
| Flammable Limits                                    | Not applicable.   |
| Products of Combustion                              | Not applicable.   |
| Fire Hazards in Presence of Various Substances      | Not applicable.   |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available   |
| Fire Fighting Media and Instructions                | Not applicable.   |
| Special Remarks on Fire Hazards                     | Not applicable.   |
| Special Remarks on Explosion Hazards                | Not applicable.   |
| <b>6. ACCIDENTAL RELEASE</b>                        |   |
| Small Spill   | Use appropriate tools to put the spilled solid in a convenient waste disposal container.  |
| Large Spill   | Corrosive solid. Poisonous solid. Stop leaking without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapor. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities. |
| <b>7. HANDLING AND STORAGE</b>                      |   |

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|   |  |
|---|--|
| Precautions   | Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from direct sunlight or strong incandescent light. Do not ingest. Do not breathe dust. Never add water to this product. Avoid shock and friction. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. |
| Storage   | Keep container tightly closed. Keep container in a cool, well-ventilated area  |
| <b>8. EXPOSURE CONTROL AND PROTECTION OF THE BODY</b> |  |
| Engineering Controls                                  | 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.  |
| Personal Protection                                   | Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.   |
| Personal Protection in Case of a Large Spill          | Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.   |
| Exposure Limits                                       | TWA: 1 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States] TWA: 0.1 (ppm) from ACGIH (TLV) [United States] TWA: 1 (mg/m <sup>3</sup> ) from NIOSH [United States] TWA: 0.1 (ppm) [United Kingdom (UK)] TWA: 0.87 (mg/m <sup>3</sup> ) [United Kingdom (UK)] <sup>3</sup> Consult local authorities for acceptable exposure limits.  |
| <b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>            |  |
| Physical state and appearance                         | Solid. (Deliquescent solid. Crystalline solid.)  |
| Odor  | Unpleasant. Pungent  |

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|                      |   |
|----------------------|---|
| Taste                | Not available.  |
| Molecular Weight     | 208.24 g/mole   |
| Color                | White to light yellow.  |
| pH                   | Not available.  |
| Boiling Point        | 159°C (318.2°F) - 160 C (sublimes)  |
| Melting Point        | Sublimation temperature: 160°C (320°F) - 165 C (Sax & Lewis, 1987) Sublimation temperature: 167 C (Sittig, 1985) Sublimation temperature: 100 C (Budavari, 1989) Sublimes at about 100 C without melting (Merck Index, 13th ed., 2001) Melting point: 148 C (under pressure) (Merck Index, 13th ed., 2001) (Budavari, 1989) |
| Critical Temperature | 372°C (701.6°F)   |
| Specific gravity     | Density: 2.114-3.60 (water-1)   |
| Vapor pressure       | Not available.  |
| Vapor Density        | Not available.  |
| Volatility           | Not available.  |
| Odor Threshold       | Not available.  |
| Ionicity             | Not available.  |
| Dispersion           | Not available.  |
| Solubility           | Decompose in cold, and in acid. Soluble in carbon Disulfide and Tetrachloride   |

**10. STABILITY AND REACTIVITY****Stability:** The product is stable.**Instability Temperature:** Not available.**Conditions of Instability:** Incompatible materials, moisture, water**Incompatibility with various substances:** Reactive with oxidizing agents, metals, acids, alkalis, moisture.**Corrosivity:** Non-corrosive in presence of glass.**Special Remarks on Corrosivity:** Not available.**Polymerization:** Will not occur.

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| 11. TOXOLOGICAL INFORMATION  |   |
|--|---|
| Routes of Entry  | Inhalation. Ingestion.  |
| Toxicity to Animals  | WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 660 mg/kg [Rat]. Acute toxicity of the vapor (LC50): 205 8 hours [Rat]. |
| Chronic Effects on Humans  | Causes damage to the following organs: mucous membranes. May cause damage to the following organs: kidneys, liver.  |
| Other Toxic Effects on Humans  | Very hazardous in case of skin contact (irritant), of ingestion, Hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive).             |
| Special Remarks on Toxicity to Animals   | Not available.  |
| Special Remarks on Chronic Effects on Humans   | Not available.  |
| 12. ECOLOGICAL INFORMATION   |   |
| <b>Ecotoxicity:</b> Not available.   |   |
| <b>BOD5 and COD:</b> Not available.  |   |
| <b>Products of Biodegradation:</b><br>Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise |   |
| <b>Toxicity of the Products of Biodegradation:</b> The products of degradation are less toxic than the product itself.                                     |   |
| <b>Special Remarks on the Products of Biodegradation:</b> Not available.   |   |
| 13. DISPOSAL   |   |
| Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations                                    |   |
| 14. TRANSPORT INFORMATION  |   |

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|---|
| DOT Classification: Class 8: Corrosive material |
| Identification: Phosphorus pentachloride        |
| Special provision for Transport: Not available  |
| <b>15. REGULATORY REQUIREMENTS</b>              |
| Not Applicable                                  |
| <b>16. OTHER INFORMATION</b>                    |
|   |