



Material Safety Data Sheet

P –TOLUOYL CHLORIDE

Section 1 - Product and Company Information

Substance : P-Toluoyl Chloride
Trade Name : P-Toluoyl chloride, 4-Methyl Benzoyl Chloride
Chemical Family : Acid Chloride
Company : Shiva Pharmachem Pvt. Ltd.
Plot No. 588,
Village Luna – 391440
Taluka Padra,
District: Vadodara, Gujarat,
India.
Phone No. : +91-2662-221021 / 224360
Fax No. : +91-2662-223314

Section 2 - Composition / Information on Ingredients

Product Name	CAS No.	EC No.	Mol. Formula	Mol. Weight.
P-Toluoyl Chloride	874-60-2	212-864-8	C ₈ H ₇ Cl _o	154.59 g/mol

Section 3 – Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIROMENT

Causes burns.

Section 4 – First Aid Measures

INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen.

EYE Contact

Assure adequate flushing of the eyes by separating the eyelids with fingers

INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Section 5 – Fire Fighting Measures

CONDITIONS OF FLAMMABILITY

Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas.

EXTINGUISHING MEDIA

Suitable: Carbon Dioxide. Dry Chemical Powder.

Unsuitable: Do not use water



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Special Risks

Specific Hazard(s): Emits toxic fumes under fire conditions
Explosion Hazards: Container explosion may occur under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific method(s) of Fire fighting

Use water spray to cool fire exposed containers.

Section 6 – Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand or soda ash. Place in covered containers using non-sparking tools and transport outdoors.

Ventilate area and wash spill site after material pickup is complete

Section 7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat and open flame. Store in a cool dry place.

Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Use only in a chemical fume hood. Use safety shower and eye bath.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Remove and wash contaminated clothing promptly.

PERSONAL PROTECTIVE EQUIPMENT

Special protective Measures: Wear appropriate government approved respirator, chemical – resistant glove, safety goggles, other protective clothing.

Section 9 - Physical and Chemical Properties

Appearance Color : Colorless
Form : Clear Liquid



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Property	: Value	at Temperature or Pressure
PH	: N/A	
BP/BP Range	: 225-227° C @ 10 mmHg	
MP/MP Range	: -4.0 ° C	
Flash Point	: 82° C Method: Closed Up	
Flammability	: N/A	
Autoignition Temp	: N/A	
Oxidizing Properties	: N/A	
Explosive Properties	: N/A	
Explosive Limits Lower	: 1.6 %	
Vapor Pressure	: 0.55 mmHg @ 20° C	
SG/Density	: 1.169 g/cm ³	
Partition Coefficient	: N/A	
Viscosity	: N/A	
Vapor Density	: 5.33 g/l	
Saturated Vapor Conc	: N/A	
Evaporation Rate	: N/A	
Bulk Density	: N/A	
Decomposition Temp.	: N/A	
Solvent Content	: N/A	
Water Content	: N/A	
Surface Tension	: N/A	
Conductivity	: N/A	
Miscellaneous Data	: N/A	
Solubility	: N/A	

Section 10 - Stability and Reactivity

STABILITY:

Stable: Stable

Conditions to avoid: Moisture

Materials to Avoid: Water, Alcohols, Oxidizing agents, Strong bases, Metals.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Hydrogen chloride gas, Phosgene Gas

HAZARDOUS POLYMERIZATION

Hazardous polymerization: will not occur

Section 11 - Toxicological Information

ACUTE TOXICITY

LD50

Intravenous

Mouse

56 mg/kg

SIGNS AND SYMPTOMS OF EXPOSURE

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may result in spasm, inflammation and edema of the larynx and



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bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath headache, nausea and vomiting. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Multiple Routes: Causes burns. Harmful if swallowed, inhaled or absorbed through skin.

Section 12 - Ecological Information

No Data Available.

Section 13 - Disposal Considerations

SUBSTANCE DISPOSAL

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal state and local environmental regulations.

Section 14 - Transport Information

RID/ADR

UN No. : 3265
Hazard Class : 8
PG : II
Proper Shipping Name : Corrosive liquid, acidic organic n.o.s P -Toluoyl Chloride

IMDG

UN No. : 3265
Hazard Class : 8
PG : II
Proper Shipping Name : Corrosive Liquid, Acidic Organics n.o.s P - Toluoyl Chloride
Technical Name : Required, P-Toluoyl Chloride

IATA

UN No. : 3265
Hazard Class : 8
PG : II
Proper Shipping Name : Corrosive Liquid, Acidic Organics n.o.s P - Toluoyl Chloride
Inhalation Packing Group I : No
Technical Name : Required, P-Toluoyl Chloride

Section 15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: C Corrosive

R-PHRASES: 34

Causes burns.



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S-PHRASES: 26-36/37/39-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

Section 16 - Additional 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 Shiva Pharmachem Pvt. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incident, consequential or exemplary damages, howsoever arising, even if Shiva Pharmachem Pvt. Ltd has been advised of the possibility of such damages