

Paushak Limited

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name	:	4-Chlorophenyl Isocyanate
CAS No.	:	104-12-1
Company	:	Paushak Limited At: Panelav, PO:Tajpura, Taluka: Halol District: Panchmahals - 389350 Gujarat, INDIA.
Telephone	:	+91 2676 664403 / 664412
Emergency Phone #	:	+91 9909985374

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute toxicity (Oral) Category 4
Acute toxicity (Inhalation) Category 2
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
Respiratory sensitization Category 1
Specific target organ toxicity Respiratory tract irritation - Single exposure [Category 3]

Environmental Hazards:

Acute aquatic hazard Category 1
Long-term aquatic hazard Category 1

Signal word:

Danger

Hazard Statement(s):

H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H330: Fatal if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P270: Do not eat, drink or smoke when using this product.
P264: Wash hands thoroughly after handling.
P284: Wear respiratory protection.
P280: Wear protective gloves/eye protection/face protection.
P304+P340: IF INHALED; Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310: Immediately call a POISON CENTER or doctor/physician.
P301+P312: IF SWALLOWED; Call a POISON CENTER or doctor/physician if you feel unwell.
P330: Rinse mouth.
P305+P351+P338: IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: IF ON SKIN; Wash with plenty of soap and water.
P332+P313: If skin irritation occurs; Get medical advice/attention.

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<p>P362: Take off contaminated clothing and wash before reuse.</p> <p>P310: Immediately call a POISON CENTER or doctor/physician.</p> <p>P391: Collect spillage.</p> <p>P403+P233: Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405: Store locked up.</p> <p>P501: Dispose of contents/container through a waste management company authorized by the local government</p> <p>Hazards not otherwise classified:</p>	
3. COMPOSITION/INFORMATION ON INGREDIENTS	
Substance/Mixture:	Substance
Components:	4-Chlorophenyl Isocyanate
Percent:	>98.0 %
CAS Number:	104-12-1
EC Number:	203-176-9
Molecular Weight:	153.57 g/mol
Chemical Formula:	C ₇ H ₄ ClNO
Synonyms:	Isocyanic Acid 4-Chlorophenyl Ester
CA Index:	No data available
4. FIRST AID MEASURES	
General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin contact:	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed:	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Immediate medical attention:	No data available
Protection of first-aiders:	No data available
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media for safety reasons:	No data available
Special hazards arising from the substance or mixture:	Carbon oxides, Nitrogen oxides (NO _x), Hydrogen chloride gas
Other specific hazards:	No data available
Advice for fire fighters:	Wear self-contained breathing apparatus for fire fighting if necessary.
6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, Personal protective equipment & Emergency procedures:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
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.	
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Prevention of secondary hazards:	No data available

7. HANDLING AND STORAGE	
Precautions for safe handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed in a dry and well-ventilated place. Stable at ambient temperature. Moisture sensitive. Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials
Specific end use(s):	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure limits:	No data available
Exposure controls	No data available
Appropriate engineering controls:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Personal protective equipment	
Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use of standard respirator cartridges as a backup to engineering controls. If the full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.
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.
Eye protection:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards.
Skin and body 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. The selected protective gloves have to satisfy the local state rules specifications. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Control of environmental exposure:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical state (20°C):	Solid
Form:	Crystal - Lump
Color:	colourless
Odor:	Pungent
Odor threshold:	No data available
Melting point/freezing point:	26 - 29 °C (freezing point)
Boiling point/range:	203 - 204 °C
Decomposition temperature:	No data available
Density:	No data available
Relative density:	1.2 g/mL at 25 °C

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Partition coefficient: n-octanol/water (log Pow)	No data available
Flash point:	90 °C - closed cup
Flammability (solid, gas):	No data available
pH:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Dynamic Viscosity:	No data available
Evaporation rate: (Butyl Acetate = 1)	No data available
Autoignition temperature:	650°C
Flammability or explosive limits:	
Lower:	2.3%
Upper:	6.8%
Solubility(ies):	No data available
Viscosity, kinematic:	No data available
10. STABILITY AND REACTIVITY	
Reactivity:	No data available
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	No data available
Conditions to avoid:	Heat Avoid moisture.
Incompatible materials:	Alcohols, Strong bases, Amines, acids, Strong oxidizing agents
Hazardous Decomposition Products:	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas
11. TOXICOLOGICAL INFORMATION	
Acute Toxicity:	LD50 Oral - Rat - 138 mg/kg(4-Chlorophenyl Isocyanate) Remarks: Behavioural: Somnolence (general depressed activity). Gastrointestinal disturbance LC50 Inhalation - Rat - 4 h - 113 mg/m3(4-Chlorophenyl Isocyanate) Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Olfaction: Other changes. Lungs, Thorax or Respiration: Dyspnoea. Gastrointestinal: Other changes.
Skin corrosion/irritation:	Skin - Rabbit(4-Chlorophenyl Isocyanate) Result: Skin irritation - 24 h
Serious eye damage/irritation:	Eyes - Rabbit(4-Chlorophenyl Isocyanate) Result: Severe eye irritation - 24 h
Chronic Toxicity/Effects:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	RTECS: NQ8575000
IARC:	No data available
NTP:	No data available
OSHA:	No data available
Routes of Exposure:	No data available
Symptoms related to exposure:	No data available
Potential Health Effects:	No data available
Target organ(s):	Inhalation - May cause respiratory irritation.(4-Chlorophenyl isocyanate)
12. ECOLOGICAL INFORMATION	
Ecotoxicity	
Fish:	No data available
Aquatic invertebrates:	No data available

Aquatic plants:	No data available			
Chronic toxicity to fish:	No data available			
Chronic toxicity to aquatic invertebrates:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence and degradability:	No data available			
Bioaccumulative potential (BCF):	No data available			
Mobility in soil:	No data available			
Results of PBT and vPvB assessment:	No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	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 scrubber.			
Disposal of container:	Dispose of as unused product.			
Other considerations:	No data available			
Waste treatment methods	No data available			
14. TRANSPORT INFORMATION				
<u>DOT (US)</u>				
UN number: UN 2206	Proper Shipping Name: Isocyanates, toxic, n.o.s.	Class or Division: 6.1	Subrisk(s): --	Packing Group: II
<u>IATA</u>				
UN number: UN 2206	Proper Shipping Name: Isocyanates, toxic, n.o.s.	Class or Division: 6.1	Subrisk(s): --	Packing Group: II
<u>IMDG</u>				
UN number: UN 2206	Proper Shipping Name: Isocyanates, toxic, n.o.s.	Class or Division: 6.1	Subrisk(s): --	Packing Group: II
EmS number:	F-A, S-A			
15. REGULATORY INFORMATION				
Safety, health and environmental regulations/legislation specific for the substance or mixture				
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.				
Chemical safety assessment				
For this product a chemical safety assessment was not carried out.				
US Federal Regulations				
CERCLA Hazardous substance and Reportable Quantity:				
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulations				
Massachusetts		Not Listed		
New Jersey		Not Listed		
Pennsylvania		Not Listed		
California Proposition 65:		Not Listed		
Other Information				
NFPA Rating:		No data available		HMIS Classification: No data available
Health:		Health:		
Flammability:		Flammability:		
Instability:		Instability:		

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International Inventories

WHMIS hazard class: No data available

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for technically qualified personnel. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Paushak Ltd. extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any third party use & shall not be held liable for any damage resulting from handling or from contact with the above product.