

Paushak Limited

Safety Data Sheet

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

Product name	:	Phenyl isocyanate
CAS No.	:	103-71-9
Company	:	Paushak Limited At: Panelav, PO:Tajpura, Taluka: Halol Distirict: Panchmahals - 389350 Gujarat, INDIA.
Telephone	:	+91 2676 664403 / 664412
Emergency Phone #	:	+91-9909985374

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008:

Flammable liquids: Category 3
H226 Flammable liquid and vapour.
Acute toxicity: Category 4
H302 Harmful if swallowed.
Acute toxicity: Category 1
H330 Fatal if inhaled.
Skin corrosion: Category 1C
H314 Causes severe skin burns and eye damage.
Serious eye damage: Category 1
H318 Causes serious eye damage.
Respiratory sensitisation: Category 1
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Signal word:

Hazard Statement(s):

Skin sensitisation: Category 1A
H317 May cause an allergic skin reaction.
Specific target organ toxicity - single exposure: Category 3
H335 May cause respiratory irritation.
Acute aquatic toxicity: Category 1
H400 Very toxic to aquatic life.
Chronic aquatic toxicity: Category 1
H410 Very toxic to aquatic life with long lasting effects
Danger!
H226: Flammable liquid and vapour
H302: Harmful if swallowed
H314: Causes severe skin burns and eye damage
H317: May cause an allergic skin reaction
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 (category 1)
H410: Very toxic to aquatic life with long lasting effect (category 1)

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

	<p>P273: Avoid release to the environment.</p> <p>P301 + P312: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.</p>
	<p>P305 + P351 + P338: IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P304 + P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor</p> <p>P308 + P311: IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.</p> <p>P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ physician.</p> <p>P319: Collect spillage.</p> <p>P501: Dispose of contents/container in accordance with local regulation.</p> <p>P403 + P233: Store in a well-ventilated place. Keep container tightly closed.</p>
<p>Supplemental Hazard information (EU): Hazards not otherwise classified:</p>	<p>None</p> <p>This substance/mixture contains no components considered to be persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher. Lachrymator.</p>
3. COMPOSITION/INFORMATION ON INGREDIENTS	
<p>Substance/Mixture: Components: Percent: CAS Number: EC Number:</p> <p>Molecular Weight: Chemical Formula: Synonyms:</p>	<p>Substance</p> <p>Phenyl Isocyanate</p> <p>>= 99.0%</p> <p>103-71-9</p> <p>203-137-6</p> <p>119.12 g/mol</p> <p>C₇H₅NO</p> <p>No data available</p>
4. FIRST AID MEASURES	
<p>General advice: Inhalation: Skin contact: Eye contact: Ingestion: Symptoms/effects, both acute and delayed: Immediate medical attention:</p>	<p>Consult a physician. Show this safety data sheet to the doctor in attendance.</p> <p>If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.</p> <p>Take off contaminated clothing and shoes immediately. Wash off immediately with polyethylene glycol 400, then plenty of water. Take victim immediately to hospital. Consult a physician.</p> <p>Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye. Eye treatment by an ophthalmologist.</p> <p>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.</p> <p>The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11</p> <p>No data available</p>
5. FIRE-FIGHTING MEASURES	
<p>Suitable extinguishing media: Unsuitable extinguishing media for safety reasons: Special hazards arising from</p>	<p>Alcohol-resistant foam, dry chemical or carbon dioxide, water spray.</p> <p>High volume water jet</p> <p>Carbon oxides, Nitrogen oxides (NO_x), Hydrogen cyanide (hydrocyanic</p>

<p>the substance or mixture:</p> <p>Hazardous combustion products:</p> <p>Other specific hazards:</p> <p>Advice for fire-fighters:</p>	<p>acid), Heating containers can lead to increased pressure with risk of explosion. Vapours are heavier than air and may spread along floors.</p> <p>No data available</p> <p>No data available</p> <p>Wear self-contained breathing apparatus for firefighting if necessary.</p>
6. ACCIDENTAL RELEASE MEASURES	
<p>Personal precautions, Personal protective equipment & Emergency procedures:</p>	<p>Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas</p>
<p>Methods and materials for containment and cleaning up:</p>	<p>Non-sparking tools should be used. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal. When picked up, treat product as prescribed in Sec. 13. "Disposal considerations". Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.</p>
<p>Environmental precautions:</p> <p>Prevention of secondary hazards:</p>	<p>Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).</p> <p>Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.</p>
7. HANDLING AND STORAGE	
<p>Precautions for safe handling:</p> <p>Advice on safe handling:</p> <p>Advice on protection against fire and explosion:</p> <p>Hygiene measures:</p>	<p>Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.</p> <p>Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.</p> <p>Smoking, eating and drinking should be prohibited in the application area. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.</p>
<p>Conditions for safe storage, including any incompatibilities:</p>	<p>Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Do not store together with oxidizing agents. Keep away from food, drink and animal feeding stuffs. Keep locked up or in an area accessible only to qualified or authorized persons.</p> <p>Recommended storage at ambient temperature (18.1 °C to 42.1 °C)</p> <p>Store under inert gas. Moisture sensitive.</p> <p>Storage class (TRGS 510): Flammable liquids</p>
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
<p>Exposure limits:</p> <p>Appropriate engineering controls:</p> <p>Personal protective equipment</p> <p>Respiratory protection:</p> <p>Eye/face protection:</p>	<p>0.005 PPM (TWA)</p> <p>0.015 PPM (STEL)</p> <p>Install a closed system or local exhaust. Also install safety shower and eye bath.</p> <p>Where risk assessment shows air-purifying respirators are appropriate 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.</p> <p>Tightly fitting safety goggles and Face shield. Use equipment for eye protection tested and approved under appropriate government</p>

Skin protection:	standards. 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:	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. Complete suit protecting against chemicals and the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Control of environmental exposure:	Do not let product enter drains. Risk of explosion
9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical state:	Liquid
Form:	Clear
Color:	Colourless to pale yellow
Odor:	Pungent
Odor threshold:	No data available
Melting point/freezing point:	-30 °C - lit.
Boiling point/range:	162 - 163 °C - lit.
Decomposition temperature:	No data available
Density:	1.096 g/cm ³ at 25 °C
Relative density:	1.096 at 19.6 °C
Partition coefficient: n-octanol/water (log Pow)	log Pow: 0.91
Flash point:	51 °C - closed cup
Flammability (solid, gas):	No data available
pH:	No data available
Vapor pressure:	1.4 mmHg at 20 °C
Vapor density:	No data available
Dynamic Viscosity:	No data available
Evaporation rate: (Butyl Acetate = 1)	No data available
Autoignition temperature:	> 600 °C
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Solubility(ies):	No data available
Viscosity, kinematic:	No data available
10. STABILITY AND REACTIVITY	
Reactivity:	Vapour/air-mixtures are explosive at intense warming.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Exothermic reaction with: Amines, Alkalines. Risk of ignition or formation of inflammable gases or vapours with: Alcohols, Water, Strong oxidizing agents, Metals, acids. Risk of explosion with: Nitrosyl compounds No hazardous reactions when stored and handled according to prescribed instructions. Reactions with water.
Conditions to avoid:	Heat, flames and sparks. Avoid moisture.
Incompatible materials:	Oxidizing agents, Water, Acids, Bases, Amines, Alcohols, Copper, copper

Hazardous Products:	Decomposition	compounds, Mild steel. In the event of fire: see section 5
11. TOXICOLOGICAL INFORMATION		
Acute Toxicity:		LD50 Oral - Rat - male and female - 887 mg/kg LC50 Inhalation - Rat - male and female - 4 h – 0.22 mg/l – vapour LD50 Dermal - Rat - male - 5.000 mg/kg
Skin corrosion/irritation:		The product is a skin sensitizer. corrosive (Rabbit)
Serious eye damage/irritation:		Risk of serious damage to eyes. (Rabbit) Information refers to the main component.
Chronic Toxicity/Effects:		No data available
Respiratory or skin sensitization:		May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity:		No data available
Carcinogenicity:		No data available.
Reproductive toxicity:		No data available
IARC:		No data available
NTP:		No data available
OSHA:		No data available
Additional Information:		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. - Lungs
12. ECOLOGICAL INFORMATION		
Ecotoxicity		Flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) – 10.6 mg/l - 96 h
Fish:		LC50 (Danio rerio (zebra fish)) 84 mg/l Exposure time: 96 h
Aquatic invertebrates:		LC50 (Daphnia magna (Water flea)) 0,16 mg/l Exposure time: 48 h
Aquatic plants:		IC50 (Chlorella pyrenoidosa (algae)) 175 mg/l Growth rate; Exposure time: 72 h NOEC (Chlorella pyrenoidosa (algae)) 90 mg/l Exposure time: 72 h Pimephales promelas (fathead minnow) NOEC: 0.39 mg/l Exposure time: 32 d
Chronic toxicity to fish:		
Chronic toxicity to aquatic invertebrates:		NOEC (Daphnia (water flea)): 0.012 mg/l Exposure time: 21 d NOEC (Daphnia magna (Water flea)): 0.004 mg/l Exposure time: 21 d
Crustacea:		No data available
Algae:		No data available
Persistence and degradability:		Aerobic - Exposure time 30 d Result: 90 % - Readily biodegradable.
Bioaccumulative potential (BCF):		Bioconcentration factor (BCF): 2.6 Information refers to the main component. low Cyprinus carpio (Carp) Bioconcentration factor (BCF): 90 - 260
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.
13. DISPOSAL CONSIDERATIONS		
Disposal of product:		Recycle to process, if possible. Consult your local regional authorities

Disposal of container:		You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.				
Other considerations:		Dispose of as unused product.				
Waste treatment methods		No data available				
14. TRANSPORT INFORMATION						
DOT (US)						
/ADR/RID/ADN						
UN number:	Proper Shipping Name:	Class or Division:	Packing Group:	Environment Hazard Mark	Hazard no.	Tunnel Code
UN 2487	PHENYL ISOCYANATE	6.1(3)	I	Yes	663	C/D
IATA						
UN number:	Proper Shipping Name:	Class or Division:	Packing Group:	Subrisk(s):		
Not Applicable						
IMDG						
UN number:	Proper Shipping Name:	Class or Division:	Packing Group:	Marine Pollutant		
UN 2487	PHENYL ISOCYANATE	6.1(3)	I	Yes		
Note: Transport in bulk according to IMO instrument: No transport in bulk according to the IBC code .						
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.						
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.						