

# Paushak Limited

## Safety Data Sheet

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

Product name : 4-Methyl-1-piperazinecarbonyl chloride hydrochloride

CAS No. : 55112-42-0

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:** Skin corrosion (Category 1B), H314.

**Signal word:** Danger

**Hazard Statement(s):** **H290:** May be corrosive to metals.  
**H314:** Causes severe skin burns and eye damage.  
**H351:** Suspected of causing cancer.

**Pictogram(s) or Symbol(s):**



**Precautionary Statement(s):**

**P280:** Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**P305 + P351 + P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P310:** Immediately call a POISON CENTER/doctor/physician/first aider.  
: None  
No data available

**Supplemental Hazard information (EU):**

**Hazards not otherwise classified:**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Mixture:** Substance

**Components:** 4-Methylpiperazine-1-carbonyl chloride monohydrochloride

**Percent:**

**CAS Number:** 55112-42-0

**EC Number:** 259-482-8

**Molecular Weight:** 199.08 g/mol

**Chemical Formula:** C6H11ClN2O · HCl

**Synonyms:**

**CA Index:**

### 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:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Most important symptoms and effects, both acute &amp; delayed:</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>Indication of any immediate medical attention and special treatment needed:</b>	No data available
<b>Protection of first-aiders:</b>	No data available
<b>5. FIRE-FIGHTING MEASURES</b>	
<b>Suitable extinguishing media:</b>	Dry powder, alcohol-resistant foam,
<b>Unsuitable extinguishing media for safety reasons:</b>	Water
<b>Special hazards arising from the substance or mixture:</b>	Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Hydrogen chloride gas
<b>Other specific hazards:</b>	No data available
<b>Advice for fire fighters:</b>	Wear self-contained breathing apparatus for fire fighting if necessary.
<b>6. ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal precautions, Personal protective equipment &amp; Emergency procedures :</b>	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection, see section 8.
<b>Methods and materials for containment and cleaning up:</b>	Soak up with inert absorbent material and dispose of as hazardous waste. Do not flush with water. Keep in suitable, closed containers for disposal
<b>Environmental precautions:</b>	Do not let product enter drains.
<b>7. HANDLING AND STORAGE</b>	
<b>Precautions for safe handling:</b>	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Conditions for safe storage:</b>	Store at ambient temperature. Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive. Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials.
<b>Storage incompatibilities:</b>	No data available
<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>Exposure limits:</b>	No data available
<b>Exposure controls</b>	No data available
<b>Appropriate engineering controls:</b>	No data available
<b>Personal protective equipment</b>	
<b>Respiratory protection:</b>	Where risk assessment shows air-purifying respirators are appropriate use standard type respirator cartridges as a backup to engineer protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.
<b>Eye/face protection:</b>	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards.
<b>Skin protection:</b>	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 standard specifications.

<b>Body Protection:</b>	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.
<b>Control of environmental exposure:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Physical state (20°C):</b>	
<b>Form:</b>	Solid
<b>Color:</b>	White
<b>Odor:</b>	No data available
<b>Odor threshold:</b>	No data available
<b>Melting point/freezing point:</b>	Melting point/range: 225 - 228 °C - lit.
<b>Boiling point/range:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Density:</b>	No data available
<b>Relative density:</b>	No data available
<b>Partition coefficient: n-octanol/water (log Pow)</b>	No data available
<b>Flash point:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>pH:</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Dynamic Viscosity:</b>	No data available
<b>Evaporation rate: (Butyl Acetate = 1)</b>	No data available
<b>Autoignition temperature:</b>	No data available
<b>Flammability or explosive limits:</b>	
<b>Lower:</b>	No data available
<b>Upper:</b>	No data available
<b>Solubility(ies):</b>	Soluble
<b>Viscosity, kinematic:</b>	No data available
<b>10. STABILITY AND REACTIVITY</b>	
<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions:</b>	No data available
<b>Conditions to avoid:</b>	Avoid moisture. Heat.
<b>Incompatible materials:</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products:</b>	In the event of fire: see section 5
<b>11. TOXICOLOGICAL INFORMATION</b>	
<b>Acute Toxicity:</b>	No data available
<b>Skin corrosion/irritation:</b>	No data available
<b>Serious eye damage/irritation:</b>	No data available
<b>Chronic Toxicity/Effects:</b>	No data available
<b>Respiratory or skin sensitization:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available

<b>Carcinogenicity:</b>	No data available			
<b>Reproductive toxicity:</b>	No data available			
<b>IARC:</b>	No data available			
<b>NTP:</b>	No data available			
<b>OSHA:</b>	No data available			
<b>Routes of Exposure:</b>	No data available			
<b>Symptoms related to exposure:</b>	Cough, Shortness of breath, Headache, Nausea, Vomiting			
<b>Potential Health Effects:</b>	No data available			
<b>Target organ(s):</b>	No data available			
<b>12. ECOLOGICAL INFORMATION</b>				
<b>Ecotoxicity</b>				
<b>Fish:</b>	No data available			
<b>Aquatic invertebrates:</b>	No data available			
<b>Aquatic plants:</b>	No data available			
<b>Chronic toxicity to fish:</b>	No data available			
<b>Chronic toxicity to aquatic invertebrates:</b>	No data available			
<b>Crustacea:</b>	No data available			
<b>Algae:</b>	No data available			
<b>Persistence and degradability:</b>	No data available			
<b>Bioaccumulative potential (BCF):</b>	No data available			
<b>Mobility in soil:</b>	No data available			
<b>Results of PBT and vPvB assessment:</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.			
<b>13. DISPOSAL CONSIDERATIONS</b>				
<b>Disposal of product:</b>	Offer surplus and non-recyclable solutions to a licensed disposal company.			
<b>Disposal of container:</b>	Dispose of as unused product.			
<b>Other considerations:</b>	No data available			
<b>Waste treatment methods</b>	No data available			
<b>14. TRANSPORT INFORMATION</b>				
<b>DOT (US)</b>				
<b>UN number:</b>	<b>Proper Shipping Name:</b>	<b>Class or Division:</b>	<b>Subrisk(s):</b>	<b>Packing Group:</b>
UN3261	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-Methylpiperazine-1-carbonyl chloride monohydrochloride)	8	--	II
Environment	no			
Hazard				
<b>IATA</b>				
<b>UN number:</b>	<b>Proper Shipping Name:</b>	<b>Class or Division:</b>	<b>Subrisk(s):</b>	<b>Packing Group:</b>
UN3261	Corrosive solid, acidic, organic, n.o.s. (4-Methylpiperazine-1-carbonyl chloride monohydrochloride)	8	--	II
Environment	no			
Hazard				
<b>IMDG</b>				
<b>UN number:</b>	<b>Proper Shipping Name:</b>	<b>Class or Division:</b>	<b>Subrisk(s):</b>	<b>Packing Group:</b>
UN3261	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-Methylpiperazine-1-carbonyl chloride monohydrochloride)	8	--	II

Environment Hazard  
Marine pollutant: no  
EmS number: F-A, S-B

#### 15. REGULATORY INFORMATION

**Toxic Substance Control Act (TSCA 8b.):** This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

##### 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

**Health:**

**Flammability:**

**Instability:**

**HMIS Classification:** No data available

**Health:**

**Flammability:**

**Instability:**

##### 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.