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MATERIAL SAFETY DATA SHEET

Date of Issue: 20 February 2008
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SECTION 1: PRODUCT AND COMPANY DETAILS

Product Name (2*RS*)-2-(4-chlorophenyl)-4-(dimethylamino)-2-(pyridin-2-yl)butanenitrile hydrochloride
Product Number EPL-AA17
Recommended Use Research chemical. Not for drug, household or other uses.

Manufacturer Epichem Pty Ltd (ABN 80 106 769 902)
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SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification
Not found
Risk Phrase(s)
Not found
Safety Phrase(s)
Not found

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient(s) Name(s)
(2*RS*)-2-(4-chlorophenyl)-4-(dimethylamino)-2-(pyridin-2-yl)butanenitrile hydrochloride
Other Names
Chlorphenamine Impurity D hydrochloride; Chlorpheniramine Impurity D hydrochloride; (2*RS*)-2-(4-chlorophenyl)-4-(dimethylamino)-2-(pyridin-2-yl)butyronitrile hydrochloride; Chlorpheniramine Nitrile hydrochloride
CAS Number
Not available (free base: 65676-21-3)

SECTION 4: FIRST AID MEASURES

Skin Contact
Remove all contaminated articles of clothing, shoes, gloves, etc and immediately flush contaminated area with copious amounts of water for at least 15 minutes. If irritation persists, SEEK MEDICAL ATTENTION.

Eye Contact
Immediately irrigate the eyes with copious amounts of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. If irritation persists, SEEK MEDICAL ATTENTION.

Inhalation
Remove to fresh air, rest and keep warm. If not breathing give artificial respiration. If breathing is difficult, give oxygen. In severe cases or if symptoms persist, SEEK MEDICAL ATTENTION.

Ingestion
Wash out mouth with copious amounts of water provided person is conscious. SEEK MEDICAL ATTENTION.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media
Suitable: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Special Risks
Specific Hazard(s): May emit toxic fumes under fire conditions.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions
Wear approved mask/respirator, protective clothing, suitable eye protection and gloves.

Methods of Cleaning Up
Mix with sand or similar inert absorbent material, sweep up and keep in a tightly closed container for disposal. See Section 13. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete.

In Case of Leak or Spill
Clean up as described, avoid breathing dust.

SECTION 7: HANDLING AND STORAGE

Handling
This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet. It should always be handled in an efficient fumehood or equivalent system. It should be borne in mind that the toxicological and physiological properties of this material are not yet well determined and that new hazardous products may arise from reactions between chemicals. Do not breathe the dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Storage

Store in closed vessels in a cool dry place at 2-8°C. Protect from heat, light and moisture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering Controls**

Use appropriate engineering controls to reduce air contamination to approved/permissible national exposure standards. Where such systems are not available wear suitable personal protective equipment which performs satisfactorily and meets local/national standards. There should be local procedures for selection, training, inspection and maintenance of this equipment. Safety shower, eye wash and mechanical exhaust required.

Respiratory Precautions

Wear approved mask/respirator.

Skin Protection

Wear suitable protective clothing and compatible chemical-resistant gloves.

Eye Protection

Wear suitable safety glasses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula	C ₁₇ H ₁₉ Cl ₂ N ₃
Molecular Weight	336.27 g/mol
Colour and Form	Off-white powder
Boiling Point	Not available
Melting Point	193.2-198.0°C
Flash Point	Not applicable
Vapour Pressure	Not available
Density	Not available
Solubility in Water	Soluble

SECTION 10: STABILITY AND REACTIVITY**Stability**

Stable.

Materials to Avoid

Strong oxidising and reducing agents.

Possible Hazardous Combustion Products

Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, hydrogen chloride.

SECTION 11: TOXICOLOGICAL INFORMATION**Health Effects**

To the best of our knowledge, the chemical, physical and toxicological properties of this specific compound have not been thoroughly investigated.

Route of Exposure

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

SECTION 12: ECOLOGICAL INFORMATION

Unknown.

SECTION 13: DISPOSAL CONSIDERATIONS

Arrange disposal by a licensed disposal company, in consultation with local Waste Disposal Authority, in accordance with local, state and federal regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number	None allocated
Dangerous Goods Class (Subsidiary Risk)	Not applicable
Packaging Group	Not applicable
Hazchem Code	Not applicable
Poisons Schedule Number	Not applicable

SECTION 15: REGULATORY INFORMATION**Indication of Danger:**

Xn Harmful

SECTION 16: OTHER INFORMATION

The information on this Safety Data is correct to the best of our knowledge at the date of publication. However, the information should only be considered as a guide to safe handling, storage and possible use of the substance. We cannot accept liability for any loss, damage or injury which may result from its use. It is of paramount importance that all chemicals should be handled only by suitably qualified, competent personnel within a controlled environment. We shall ensure, so far as is reasonably practicable, that any revision of the Data Sheet is sent to all customers to whom we have directly supplied the material. Should any further information be required, please feel free to contact Epichem on +61 (0) 8 9360 7696.

END OF MSDS