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MATERIAL SAFETY DATA SHEET

Date of Issue: 6 April 2009

Date of Latest Revision: 15 November 2018

SECTION 1: PRODUCT AND COMPANY DETAILS

Product Name	2-(4-chlorophenyl)-4-dimethylamino-2-(2-dimethylaminoethyl)butyronitrile dihydrochloride
Product Number	EPL-AA42
Recommended Use	Research chemical. Not for drug, household or other uses.
Manufacturer	Epicchem Pty Ltd (ABN 80 106 769 902)
Address	Suite 5, 3 Brodie-Hall Drive, Technology Park, Bentley WA 6102, Australia
Telephone Number	+61 (8) 6167 5200 (Office hours only)
Fax Number	+61 (8) 6167 5201 (Office hours only)

SECTION 2: HAZARDS IDENTIFICATION

Hazard statements

- Acute Tox. 3; H331 Toxic if inhaled.
- Acute Tox. 3; H311 Toxic in contact with skin.
- Acute Tox. 3; H301 Toxic if swallowed.

Precautionary statements

- P261 - Avoid breathing dust.
- P264 - Wash hands and face thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P330 - Rinse mouth.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P361 - Remove/Take off immediately all contaminated clothing.
- P363 - Wash contaminated clothing before reuse.
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P311 - Call a POISON CENTER or doctor/physician.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient(s) Name(s)

2-(4-chlorophenyl)-4-dimethylamino-2-(2-dimethylaminoethyl)butyronitrile dihydrochloride

Other Names

None

CAS Number

Not available

SECTION 4: FIRST AID MEASURES

Skin Contact

Remove all contaminated articles of clothing, shoes, gloves, etc and immediately wash contaminated area with copious amounts of soap and water and rinse thoroughly. If irritation persists, SEEK MEDICAL ATTENTION.

Eye Contact

Immediately irrigate the eyes with copious amounts of water for several 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 case of unconsciousness place patient in recovery position for transport. In severe cases or if symptoms persist, SEEK MEDICAL ATTENTION.

Ingestion

Wash out mouth with copious amounts of water provided person is conscious. Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Give activated carbon (20 - 40 g in a suspension of 10%). IMMEDIATELY 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.

Environmental Precautions

Do not allow to penetrate into soil, waterbodies or drains.

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

Evacuate area.

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 dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Storage

Hygroscopic. 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

General Protection and Hygiene Measures

Avoid contact with skin and eyes. Take off immediately all contaminated clothing. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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 ₁₆ H ₂₄ ClN ₃ ·2HCl
Molecular Weight	366.76 g/mol
Colour and Form	White powder
Boiling Point	Not available
Melting Point	282.7-285.7°C (decomposition)
Flash Point	Not applicable
Vapour Pressure	Not available
Density	Not available
Solubility in Water	Soluble

SECTION 10: STABILITY AND REACTIVITY

Stability

Stable under normal conditions

Materials to Avoid

Strong oxidising agents.

Thermal decomposition / conditions to be avoided

Formation of toxic gases is possible during heating or in case of fire.

Possible Hazardous Combustion Products

Carbon monoxide, carbon dioxide, nitrogen oxides, hydrochloric.

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.

Acute Toxicity

LD50 Rat (oral): 188-306 mg/kg (Chlorphenamine hydrogen maleate)

LD50 Rabbit (dermal): 365 mg/kg (Chlorphenamine hydrogen maleate)

LC50 Rat (inhalative): > 0,61 mg/L/4h (Chlorphenamine hydrogen maleate)

SECTION 12: ECOLOGICAL INFORMATION

Strongly hazardous to water. Do not allow undiluted product to reach ground water, water course or sewage system.

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	UN2811
Dangerous Goods Class (Subsidiary Risk)	6.1
Hazchem Code	Not applicable
Poisons Schedule Number	Not applicable
Packaging Group	III
Pack Size and Container Type	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 (8) 6167 5200.

END OF MSDS