

MATERIAL SAFETY DATA SHEET

Methacholine Chloride USP

Company Information

Manufacturer Methapharm Inc.
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Identity Information

Common Name: Methacholine Chloride USP

Synonyms: Provocholine[®], Amechol, Mecholyl, Mecholyl Chloride

CAS Number: 62-51-1

Chemical Name: 2-(Acetyloxy)-N,N,N-trimethyl-1-propanaminium chloride

Therapeutic Category: Cholinergic

Formula: C₈H₁₈ClNO₂

RTECS Number: BR5250000

Physical/Chemical Characteristics

Boiling Point: N/A

Specific Gravity: N/A

Melting Point: 170°C - 173°C

Vapour Pressure: N/A

Vapour Density: N/A

Evaporation Rate: N/A

Solubility: Freely Soluble in water, alcohol and chloroform.

Appearance and Odour: White hygroscopic needles. Slight odour of dead fish.

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Fire and Explosion Hazard Data

Flash Point:	N/A
Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder or polymer foam as appropriate for surrounding fire and materials.
Special Fire Fighting Procedures:	As with all fires, evacuate personnel to safe area. Firefighters should use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire and Explosion Hazards:	This material is assumed to be combustible. As with all dry powders, it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity. When heated to decomposition, material emits toxic fumes under fire conditions.

Reactivity Data

Stability:	Rapidly decomposed by alkalis, slowly by water.
Incompatibility:	Strong oxidizing agents. PROTECT FROM MOISTURE.
Hazardous Decomposition or Byproducts:	When heated to decomposition, material emits toxic fumes of: carbon dioxide, carbon monoxide, nitrogen oxides and hydrogen chloride gas.
Hazardous Polymerization:	Will not occur.

Health Hazard Data

Acute Effects:	May be harmful by inhalation or skin absorption. Harmful if swallowed.
Signs and Symptoms of Exposure:	Causes severe eye irritation. Causes skin irritation. Irritating to mucous membranes and upper respiratory tract. LD ₅₀ 750 mg/kg (oral-rat)
Emergency First Aid Procedures:	Remove from exposure. Remove contaminated clothing. Upon eyes or skin contact, flush affected areas with copious amount of water. Assure adequate flushing by separating the eyelids with fingers. If swallowed, wash out mouth with water, provided person is conscious. CALL A PHYSICIAN. If inhaled, remove to fresh air. If breathing becomes difficult, CALL A PHYSICIAN.

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Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:	Wear approved respirator and chemically compatible gloves. Vacuum or sweep up spillage. Avoid dust. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse. Ventilate area and wash spill site.
Waste Disposal Method:	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all applicable Federal, Provincial, State and local laws.
Precautions to be Taken in Handling and Storage:	Store in tightly closed container in a cool dry place (HYGROSCOPIC). This material should be handled and stored per label and other instructions to ensure product integrity. Do not permit eating, drinking or smoking near material. Wash thoroughly after handling. Avoid contact with eyes, skin or clothing. Avoid breathing dust or mist. Use with adequate dust control.

Control Measures

Respiratory Protection:	A NIOSH approved full- face respirator with organic cartridges is recommended.
Ventilation:	Local exhaust: Recommended Mechanical (general): Recommended
Protective Gloves:	Rubber.
Eye Protection:	Safety goggles.
Other Protective Clothing/Equipment:	Appropriate laboratory apparel, protect exposed skin.

Transportation Information

TDG	Shipping Name: Not Regulated Classification: UN: Packaging Group:
IATA	Shipping Name: Classification: Not Regulated UN: Packaging Group:
49 CFR	Shipping Name: Not Regulated Classification: UN: Packaging Group:

Preparation Information	
Date Prepared	June 5, 2015

**THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT
BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND
SHALL BE USED ONLY AS A GUIDE**