

Catalog Number: 100012 Revision date: 24-Apr-2006

### IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 100012

**Product name: ACETYLCHOLINE CHLORIDE** 

Synonyms: Acecoline; Arteroscoline; Acetyl Cholinium Chloride

Supplier:

MP Biomedicals, LLC 29525 Fountain Parkway

Solon, OH 44139 tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components **CAS Number** Weight % **ACGIH Exposure Limits: OSHA Exposure Limits:** ACETYLCHOLINE CHLORIDE 60-31-1 90 - 100% None None

3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** May cause irritation to the eyes, skin and respiratory system.

**Category of Danger:** 

Irritant

Principle routes of exposure: Skin **Inhalation:** Irritating to respiratory system

Ingestion: Irritating to mouth, throat and stomach

**Skin contact:** Irritating to skin.

Eye contact: Contact with eyes may cause irritation

ANSI Classification Irritant - eye, skin, respiratory

Statements of hazard May Cause Eye, Skin and Respiratory Tract irritation.

Statement of Spill or Leak - ANSI Label Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment.

Statement of First Aid In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a

physician.

Precautions - ANSI Label Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid breathing vapors. Avoid prolonged or repeated contact with the skin, eyes or respiratory tract. Wash thoroughly after exposure.

# 4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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**Inhalation:** Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water for at least 15 minutes Call a physician immediately

Ingestion: Do not induce vomiting without medical advice.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician

immediately Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam

Specific hazards: Burning produces irritant fumes.

Unusual hazards: None known

**Special protective equipment for firefighters:** Wear self contained breathing apparatus for fire fighting if

necessary.

**Specific methods:**Water mist may be used to cool closed containers.

Flash point:

Autoignition temperature:

Not determined

Not determined

NFPA rating:

NFPA Health: 1
NFPA Flammability: 1
NFPA Reactivity: 0

# **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions:

Use personal protective equipment.

**Environmental precautions:** Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:**Soak up with inert absorbent material.

# 7. HANDLING AND STORAGE

#### Storage:

0°C

STORE UNDER NITROGEN

**Handling:** Use only in area provided with appropriate exhaust

ventilation.

Safe handling advice: Wear personal protective equipment. Remove and wash

contaminated clothing before reuse.

**Technical measures/storage conditions:** Keep container tightly closed in a dry and well-ventilated

place. Keep containers tightly closed in a cool, well-

ventilated place.

**Incompatible products:**Oxidising and spontaneously flammable products

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

**Hand protection:** Pvc or other plastic material gloves **Skin and body protection:** Impervious clothing

**Eve protection:** Gogales

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.



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# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Powder **Formula:** C7H16NO2•Cl

Molecular weight:181.7Melting point/range:149-152

Boiling point/range: No Data available at this time.

Density:No data availableVapor pressure:No data availableEvaporation rate:No data availableVapor density:No data available

Solubility (in water): Soluble

Flash point: Not determined Autoignition temperature: Not determined

#### 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

**Polymerization:** None under normal processing.

Hazardous decomposition products: Chloride/Hydrochloric acid, Nitrogen oxides

(NOx)/ammonia/CN-

Materials to avoid: Strong oxidising agents

**Conditions to avoid:** Exposure to air or moisture over prolonged periods.

# 11. TOXICOLOGICAL INFORMATION

Product Information Acute toxicity

ComponentsRTECS Number:Selected LD50s and LC50sACETYLCHOLINE CHLORIDEFZ9800000Oral LD50 Rat : 2500 mg/kgOral LD50 Mouse : 3 gm/kg

**Chronic toxicity:** Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

**Local effects:** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised

skin), nausea, vomiting, headache.

**Primary irritation:** A primary irritant.

Carcinogenic effects:

Mutagenic effects:

No data is available on the product itself.

# 12. ECOLOGICAL INFORMATION

Mobility:No data availableBioaccumulation:No data availableEcotoxicity effects:No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.

Components U.S. DOT - Appendix B - U.S. DOT - Appendix B - United Kingdom - The Red

ACETYLCHOLINE CHLORIDE Marine Pollutan Severe Marine Pollutants List:

Not Listed Not Listed

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Components Germany VCI (WGK) World Health Organization Ecotoxicity - Fish Species

(WHO) - Drinking Water Data

ACETYLCHOLINE CHLORIDE Not Listed Not Listed Not Listed

Components Ecotoxicity - Freshwater Ecotoxicity - Microtox Data Ecotoxicity - Water Flea

Data

ACETYLCHOLINE CHLORIDE Not Listed Not Listed Not Listed

Components EPA - ATSDR Priority List EPA - HPV Challenge California - Priority Toxic

Program Chemical List Pollutants
Not Listed Not Listed

Components California - Priority Toxic Pollutants California - Priority Toxic Pollutants

ACETYLCHOLINE CHLORIDE Not Listed Not Listed

Algae Data

Not Listed

# 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate

Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished

with this material may be hazardous.

**Contaminated packaging:**Methods for cleaning up:
Do not re-use empty containers
Soak up with inert absorbent material.

### 14. TRANSPORT INFORMATION

UN/ld No: Not regulated

DOT:

Proper shipping name: Not Regulated

Components U.S. DOT - Appendix A Table 1 - Reportable Quantities

ACETYLCHOLINE CHLORIDE Not Listed

TDG (Canada):

ACETYLCHOLINE CHLORIDE

WHMIS hazard class: D2b toxic materials

(T)

IMDG/IMO

IMDG - Hazard Classifications Not Applicable

Components U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine

**Pollutants** 

ACETYLCHOLINE CHLORIDE Not Listed Not Listed

IMO-labels:

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# 15. REGULATORY INFORMATION

#### International Inventories

Components

ACETYLCHOLINE CHLORIDE

Inventory - United States TSCA - Sect. 8(b)

Canada DSL Inventory List 
Canada NDSL Inventory List 
C7H16NO2.CI

Australia (AICS):PresentInventory - China:Present

**EU EINECS List -** 200-468-8; C7H16NO2.Cl

Inventory - Japan: 9-249; 9-1504
Philippines PICCS: Present

U.S. regulations:

Components

California Proposition 65 Massachusetts Right to Know List:

New Jersey Right to Pennsylvania Right to Know List:

List:

ACETYLCHOLINE

TYI CHOLINE Not Listed Not Listed Not Listed Not Listed

CHLORIDE

Components Florida substance List: Rhode Island Right to Illinois - Toxic Air Connecticut - Hazardous Air

Know List: Contaminants Pollutants
ACETYL CHOLINE Not Listed Not Listed Not Listed Not Listed

ACETYLCHOLINE CHLORIDE

Components SARA 313 Emission CERCLA/SARA - Section NTP: IARC:

reporting/Toxic Release 302 Extremely Haz of Chemicals

ACETYLCHOLINE Not Listed None None

CHLORIDE

**SARA 313 Notification:** The above is your notification as to the SARA 313 listing for this product(s) pursuant

to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of

1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community

Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska)

Washington, DC or Alaska).

**State Notification:** The above information is your notice as to the Right-to-Know listings of the stated

product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive

hazards; and the compounds environmental impact if accidentally released.

### 16. OTHER INFORMATION

Prepared by: Health & Safety

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**End of Safety Data Sheet**