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MATERIAL SAFETY DATA SHEET (MSDS)

CHOLINE BITARTRATE LR

1. PRODUCT INFORMATION

Product name:Choline Bitartrate

CAS Number: 87-67-2

Product Coad: C0068400500

Chemical Formula:C9H19NO7

2. HAZARDS IDENTIFICATION

Classification of the GHS

PHYSICAL HAZARDS Not classified

HEALTH HAZARDS Not classified

Not classified

ENVIRONMENTAL HAZARDS

GHS label elements

None

Pictograms or hazard symbols

Signal word No signal word

None

Hazard statement

Precautionary statements None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Component(s): Choline Bitartrate

Percent: >98.0%(T)

CAS Number: 87-67-2

Chemical Formula: C9H19NO7

4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Specific hazards: Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Specific methods: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Choline Bitartrate

5. FIRE-FIGHTING MEASURES

Special protective equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

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Personal precautions, Use personal protective equipment. Keep people away from and upwind of spill/leak. protective equipment and Entry to non-involved personnel should be controlled around the leakage area by emergency procedures: roping off, etc.
Environmental precautions: Prevent product from entering drains.
Methods and materials for Sweep dust to collect it into an airtight container, taking care not to disperse it. containment and cleaning Adhered or collected material should be promptly disposed of, in accordance with up: appropriate laws and regulations.

7. HANDLING AND STORAGE

Handling
Handling is performed in a well ventilated place. Wear suitable protective equipment.
Technical measures:
Prevent dispersion of dust. Wash hands and face thoroughly after handling.
Use a local exhaust if dust or aerosol will be generated.
Advice on safe handling: Avoid contact with skin, eyes and clothing.
Storage
Storage conditions: Keep container tightly closed. Store in a cool and dark place.
Store under inert gas.
Protect from moisture.
Store away from incompatible materials such as oxidizing agents.
Packaging material: Law is followed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.
Personal protective equipment
Respiratory protection: Dust respirator. Follow local and national regulations.
Protective gloves.
Hand protection:
Eye protection: Safety glasses. A face-shield, if the situation requires.
Skin and body protection: Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid
Form: crystal - powder
White
Color:
Odor: No data available
pH: No data available
Melting point/freezing point: 150 °C
Boiling Point/Range: No data available
Flash Point: No data available
Explosive limits
Lower: No data available
No data available
Upper:
Density: No data available
Solubility: No data available

10. STABILITY AND REACTIVITY

Stability: Stable under proper conditions.
Reactivity: No special reactivity has been reported.
Conditions to avoid: Hygroscopic
Incompatible materials: oxidizing agents Hazardous Decomposition Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx)
Products: Choline Bitartrate

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Acute Toxicity: No data available
Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: No data available
IARC =
NTP = No data available
Reproductive toxicity: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Fish: No data available
Crustacea: No data available
Algae: No data available
Persistence / degradability: No data available
Bioaccumulative potential(BCF): No data available
Mobility in soil
log Pow: No data available
Soil adsorption (Koc): No data available
Henry's Law constant(PaM3/mol): No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class: Does not correspond to the classification standard of the United Nations
UN-No: Not Listed

15. REGULATORY INFORMATION

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. Other Information

Product Use: Laboratory Reagent.

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CHOLINE BITARTRATE LR

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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