

# 济南久安酯类化工有限公司

JINAN JIUAN ESTER CHEMICAL CO., LTD
CHEMICAL INDUSTRIAL PARK, ZHANGQIU CITY, SHANDONG PROVINCE, CHINA

SDS-012E-2016

# SAFETY DATA SHEET

#### L+ Choline Bitartrate

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** L+ Choline Bitartrate

Chemical name (2-Hydroxyethyl)trimethylammonium bitartrate-L-(+)- tartrate salt (1:1)

Company name Jinan Jiuan Ester Chemical Co., Ltd.

**Address** Chemical Industrial Park, Zhangqiu City, Shandong Province, China

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#### SECTION 2. HAZARDS IDENTIFICATION

Physical hazards Not classified.

Health hazards Not classified.

OSHA hazard(s) Not classified.

**GHS Label elements** 

Hazard symbol No symbol.

Signal word Not available.

Hazard statement Not available.

**Precautionary statement** 

PreventionNot available.ResponseNot available.StorageNot availableDisposalNot available.Hazard(s) not otherwiseNot classified.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Non-hazardous components

Chemical name	Molecular formula	M.W.	EINECS No.	CAS number	Weight percent
Choline Bitartrate	$C_5H_{14}NO \cdot C_4H_5O_6$	253.25	201-763-4	87-67-2	99

## **SECTION 4. FIRST AID MEASURES**

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position

comfortable for breathing.

Call a physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops

and persists

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison

control center immediately.

**Most important symptoms** /effects, acute and delayed

Not available.

**Indication of immediate** medical attention and special treatment needed General information

Provide general supportive measures and treat symptomatically.

Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials. Water.

Foam. Dry chemical or CO<sub>2</sub>.

Unsuitable extinguishing media None known.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted

Special protective equipment

and precautions for firefighters Wear suitable protective equipment.

Fire-fighting

equipment/instructions

Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing

equipment and protective clothing.

**Specific methods** Use standard firefighting procedures and consider the hazards of other

involved materials.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

containment and cleaning up

Methods and materials for Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the MSDS. Clean surface thoroughly to remove residual contamination.

# **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Clean equipment and work surfaces with suitable detergent or solvent after use. Remove contaminated clothing, gloves and wash before reuse .wash hands and other exposed skin thoroughly. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

**Exposure guidelines** No exposure standards allocated.

**Appropriate engineering** 

controls

Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process

enclosure.

**Respiratory protection** Where respirators are deemed necessary to reduce or control occupational

exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place(applicable U.S. regulation OSHA 29

CFR 1910.134).

Safety glasses with side-shields. Eye/face protection

**Hand protection** Protective gloves.

Wear suitable protective clothing, gloves and eye/face protection Skin and body protection

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Colorless or white crystals or crystalline powder.. **Appearance** 

Physical state Solid.

**Odour** Odorless.

pН 3-4 (10% solution in water)

300.2 - 307.4 °F (149 - 153 °C) Melting point/freezing point

**Boiling Point/Range** Not available. Not available. **Evaporation rate** 

Not available. Flash point

Flammability (solid, gas) Not applicable.

Vapor pressure Not applicable.

Viscosity Not applicable.

Solubility in water Freely soluble. **Solubility (other)** Slightly soluble in alcohol; insoluble in chloroform and in ether.

**Decomposition temperature** Not applicable.

#### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** No reactivity hazards known.

Chemical stability Material is stable under normal conditions.

Conditions to avoid Hygroscopic; protect from moisture.

Materials to avoid Strong bases, strong oxidizing agents.

**Hazardous decomposition** 

products

NOx, Carbon dioxide, carbon monoxide. Irritating and/or toxic fumes or

gases. Emits toxic fumes under fire conditions.

#### SECTION 11. TOXICOLOGICAL INFORMATION

IngestionDue to lack of data the classification is not possible.InhalationDue to lack of data the classification is not possible.Skin contactDue to lack of data the classification is not possible.Eye contactDue to lack of data the classification is not possible.

Symptoms related to the physical, chemical, and toxicological characteristics

Related material Nausea. Vomiting. Dizziness. Depression. Tearing. Blurred

vision. It is not known if this material causes the same effects.

**Delayed and immediate** 

effects

Related material: High blood pressure. It is not known if this material

causes the same effects.

**Acute toxicity** Not available.

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** No ecotoxicity data noted for the ingredient(s).

**Persistence and degradability** No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Mobility in soil Not available.

#### SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Dispose in accordance with all applicable regulations. Under RCRA, it is

the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Local disposal regulations Not available.

Hazardous waste code Not available.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be

disposed of in a safe manner (see:Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for

recycling or disposal. Since emptied containers may retain product residue,

follow label warnings even after container is emptied.

#### **SECTION 14. TRANSPORTATION INFORMATION**

**DOT** Not regulated as a hazardous material by DOT.

IATA Not regulated as a dangerous good.

Transport in bulk according

to Annex II of MARPOL No information available.

73/78 and the IBC Code

#### **SECTION 15. REGULATORY INFORMATION**

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

All components are on the U.S. EPA TSCA Inventory List.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312

No

Other federal regulations

Hazardous hemical

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug

**Administration (FDA)** 

Not regulated.

**US** state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals

currently listed as carcinogens or reproductive toxins.

## **SECTION 16. OTHER INFORMATION**

**References:** Not available **Other Special Considerations:** Not available

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Jinan Jiuan Ester Chemical Co., Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Jinan Jiuan Ester Chemical Co., Ltd. has been advised of the possibility of such damages.

