

1、 IDENTIFICATION OF SUBSTANCE / PREPARATION & COMPANY:

- **Description** : Lauric Arginate Ethyl Easter
- Identified uses : Laboratory chemicals, Manufacture of substances
- **Manufacturer / Supplier** : **Luoyang Chihon biotechnology Co. LTD.**
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2、 COMPOSITION / INFORMATION ON INGREDIENTS:

- 1) **CAS No** : 60372-77-2
- 2) **Chemical Name** : N^α-Lauryl-L-arginine ethyl ester monohydrochloride
- 3) **Molecular Formula** : C₂₀H₄₀N₄O₂HCL
- 4) **Active** : **Min. 95%**

3、 DESCRIPTION OF HAZARDS:

- 1) **Routes of Exposure** : Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact and accidental ingestion.
- 2) **Health Hazards** : Irritating to eyes. Pain to mucosa of breath system
- 3) **SECTION 4. FIRST AID MEASURES:**
- 4) **Eye Contact** : Flush eyes with water for 15 minutes while holding eyelids open. Rest eyes for 30 minutes. If burning, blurred vision, redness or swelling persist, transport to the nearest medical facility for further treatment.
- 5) **Inhalation** : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for further treatment.
- 6) **Skin Contact** : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.

- 7) **Ingestion** : In general, no treatment is necessary unless large quantities are swallowed, however, get medical advice. Self limiting due to bitter taste.
- 8) **Advice to Physician** : Treat symptomatically. Following cases of gross overexposure, investigation of liver, kidney, and eye function may be advisable. Records of such incidents should be maintained for future reference.

4、 FIRE-FIGHTING MEASURES:

- 1) **Flash Point** : 250 °F.
- 2) **Extinguishing Media** : Large fires should only be fought by properly trained fire fighters. Dry chemical powder, CO₂ or protein based foam. If water has to be used it must only be sprayed in large quantities. Do not discharge extinguishing waters into the aquatic environment. Foam, dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
- 3) **Unsuitable Media** : Do not use water in a jet.
- 4) **Protective Equipment** : Wear full protective clothing and self-contained breathing apparatus.
- 5) **Additional Information** : All storage areas should be provided with adequate fire fighting facilities. Keep adjacent containers cool

5、 ACCIDENTAL RELEASE MEASURES:

- 1) **Protective Measures** : Use safety goggles and impervious boots. Avoid inhaling vapor and/or mists. Avoid skin contact. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Use appropriate containment to avoid environmental contamination. Ventilate contaminated area thoroughly.
- 2) **Clean Up Methods** : For large liquid spills (>100 KG), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain contaminated waste.. For small spills (<100Kg), transfer by mechanical means to a labeled, sealable container for product recovery and safe disposal.
- 3) **Additional Advice** : Observe all federal, state and local regulations.

6、 HANDLING AND STORAGE:

- 1) **Handling** : Use safety goggles to avoid splashing in the eyes. Use in well ventilated

areas. Avoid contact with skin, eyes and clothing. Do not empty into drains. Avoid ignition sources and electrostatic charges.

- 2) **Storage** : Store in a cool, dry, well ventilated place, away from sunlight, ignition sources and other sources of heat. Avoid temperatures above 40 °C.

7、 EXPOSURE CONTROLS / PERSONAL PROTECTION:

- 1) **Respiratory protection** : No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.
- 2) **Hand Protection** : Where hand contact with product may occur, the use of protective gloves is suggested.
- 3) **Eye Protection** : Wear eye protection. Chemical splash goggles (chemical monogoggles).
- 4) **Protective Clothing** : Skin protection not ordinarily required beyond standard issue work clothes.
- 5) **General Information** : Wash hands before eating, drinking, smoking, and using toilet. Avoid eating, drinking or smoking while handling the product.

8、 PHYSICAL AND CHEMICAL PROPERTIES:

- 1) **Appearance** : White powder.
- 2) **Odor** : Specific, faint.
- 3) **Flash Point** : : Approx 250F (open cup)
- 4) **Density** : 0.4-0.6g/mL
- 5) **Solubility in water** : Soluble in water at typical usage levels
- 6) **Solubility in other materials** : Ethanol, Glycerine
- 7) **pH (in 1% w/w solution)** : 3~5

9、 STABILITY AND REACTIVITY:

- 1) **Stability** : Stable, hygroscopic.
- 2) **Conditions to Avoid** : Heat, flames and sparks, temperatures above 40 °C
- 3) **Materials to Avoid** : Strong oxidizing agents, Alkalis.
- 4) **Sensitivity to Static** : Yes

- 5) **Hazardous Decomposition** : Carbonyl and dioxolane derivatives
- 6) **SECTION 11. TOXICOLOGICAL INFORMATION:**
- 7) **Acute Toxicity** : LD₅₀ oral in rats: Above 2000 mg/Kg (active ingredient)
- 8) **Embryo-fetal toxicity in rabbits**: NOAEL dams: 300 mg/Kg/day Fetus: 1000 mg/Kg/day
- 9) **Sensitization** : Not a skin sensitizer
- 10) **Eye Irritation** : Irritating to the eyes

10、 **ECOLOGICAL INFORMATION:**

- 1) **Biodegradability** : Readily biodegradable
- 2) **Ecotoxic effects**
- 3) **Fish** : LC50 23.7 mg/L (active ingredient)
- 4) **Aquatic Invertebrates** : LC50/EC 6.54 mg/L (active ingredient)
- 5) **Algae** : EC50 0.461 mg/L
- 6) **Microorganisms** : EC50 98.5 mg/L
- 7) **Mobility** : If product enters soil, it will be highly mobile and may contaminate groundwater.
- 8) **Bioaccumulation** : Does not bioaccumulate significantly
- 9) **Other Information** : This product is considered very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

11、 **DISPOSAL CONSIDERATIONS:**

- 1) **Material Disposal** : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
- 2) **Container Disposal** : Drain container thoroughly. After thoroughly washing and drying, containers may be reused, or disposed of according to local regulations.
- 3) **Local Legislation** : Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

- 4) **SECTION 14. TRANSPORT INFORMATION:** This product is not classified as dangerous for transport by road, sea and/or air.

12、 REGULATORY INFORMATION:

- 1) **The regulatory information is not intended to be comprehensive. Other regulations may apply for this material.**
- 2) **FDA GRAS No. :** GRN000164
- 3) **CTFA Monograph ID :** 12102
- 4) **CAS No :** 60372-77-2
- 5) **Disposal considerations**

13、 Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14、 Transport information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name ADR/RID: Not dangerous goods MDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

15、 OTHER INFORMATION:

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental

requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of this product.