



Qingdao Free Trade Zone United International Co., Ltd.

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Material Safety Data Sheet

DELTA NONALACTONE

Qingdao Free Trade Zone United International Co., Ltd. asks to its customers receiving this material safety data sheet to study carefully in order to know the dangers presented by the product and to inform its employees, agents, and sub-contractors.

The end user is responsible for the handling and the storage of the product to refer to legislative, regular and administrative up to date texts, concerning the protection of the workers and the population and the environmental.

This information is based on our current level of knowledge given by our own suppliers.

Date/revised: Mar 05, 2014	Date issued: Dec. 04, 2008
Product: Delta Nonalactone	

1. Substance/preparation and company name

Company:

Qingdao Free Trade Zone United International Co., Ltd.

18/F, Huaren International Building, 2A Shandong Road, Qingdao, China - 266071

2. Composition/information on ingredients

Chemical name: Delta Nonalactone

CAS No.: 3301-94-8

FEMA No.: 3356

FDA No.: N/A

CE No.: 2194c

EINECS No.: 221-974-5

3. Physical and chemical properties

Appearance: Colorless to yellow liquid

Odor: Cream, milk, coconut

Formula: C₉H₁₆O₂

Molecular weight: 156.22

Melting point: N/A

Boiling point: 115 - 116 °C

Assay: 98.0% min.

4. Hazards identification

Eyes: May cause eye irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

5. First aid measures

Eyes: Flush eyes with water as a precaution.

Skin: Wash off with soap and plenty of water. Get medical aid.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Get medical aid.

Inhalation: Remove from exposure site to fresh air. If not breathing, give artificial respiration. Get medical aid.

6. Fire fighting and measures

Flash point: 44 °C

Flammable limits: N/A

Decomposition temp.: N/A

General Information: Wear self contained breathing apparatus for fire fighting if necessary. Use water spray to cool unopened containers.

Extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

7. Accidental release measures

General information: Use proper personal protective equipment as indicated in Section 9. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Spills/Leaks: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

8. Handling and storage

Handling: Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage: Store in cool place (below 20°C). Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

9. Exposure controls and personal protection

Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respiratory: Required when vapors/aerosols are generated.

10. Stability and reactivity

Chemical stability: Stable under normal temperatures and pressures.

Incompatibilities: Strong oxidizing agents.

Conditions to avoid: Heat, flames and sparks.

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

11. Toxicological information

N/A

12. Ecological information

N/A

13. Disposal considerations

Dispose of in a manner consistent with federal, state, and local regulations.

14. Transport information

UN number: 1224

Hazard class: 3

PackingGroup: III

Emergency TEL: +86-532-86069596; 83891505~9

15. Regulatory information

N/A

16. Other information

Shelf life: 12 months minimum in sealed containers protected from light and air

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained here.