



Qingdao Free Trade Zone United International Co., Ltd.

18/F, Huaren International Building,
2A Shandong Road, Qingdao, China 266071
Tel: 86-532-86069596; 83891505~509
Fax:86-532-83893695
<http://www.unitedint.com>

Material Safety Data Sheet

DELTA UNDECALACTONE

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 Undecalactone	

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 Undecalactone

CAS No.: 710-04-3

FEMA No.: 3294

FDA No.: N/A

CE No.: 688c

EINECS No.: 211-915-1

3. Physical and chemical properties

Appearance: Colorless to yellow liquid

Formula: C₁₁H₂₀O₂

Molecular weight: 184.28

Melting point: N/A

Boiling point: 152 - 155 °C

Relative density(20°C): 0.958-0.964

Refractive index(n₂₀/D): 1.456-1.461

Assay: 98.0% min.

4. Hazards identification

Eyes: Causes eye irritation.

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

Ingestion: May be harmful if swallowed.

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

5. First aid measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid.

Do not induce vomiting. Rinse mouth with water.

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

6. Fire fighting and measures

Flash point: 113 °C

Flammable limits: N/A

Decomposition temp.: N/A

General Information: Wear self contained breathing apparatus for fire fighting if necessary.

Extinguishing media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

7. Accidental release measures

General information: Use proper personal protective equipment as indicated in Section 9.

Spills/Leaks: Soak up with inert absorbent material and dispose of as hazardous waste.

Keep in suitable, closed containers for disposal. Do not let product enter drains.

8. Handling and storage

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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, strong bases.

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

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.