



UNITED
INTERNATIONAL INC.

United International Co., Ltd.

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Material Safety Data Sheet

GAMMA DODECALACTONE

United International Co., Ltd. asks to its customers receiving this material safety data sheet to study it 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: Aug. 11, 2011	Date issued: Dec. 04, 2008
Product: Gamma dodecalactone	

1. Substance/preparation and company name

Company:

United International Co., Ltd.

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

2. Composition/information on ingredients

Chemical name: Gamma dodecalactone

CAS No.: 2305-05-7

FEMA No.: 2400

FDA No.: 172.515

CE No.: 2240c

EINECS No.: 218-971-6

3. Physical and chemical properties

Appearance: Colorless of slightly yellow liquid

Formula: $C_{12}H_{22}O_2$

Molecular weight: 198.30

Melting point: 17-18 °C

Boiling point: 130-132 °C

Density: 0.933~0.939g/cm³

Odor: Strong peach smell with cream taste

Assay: 99.0% min.

4. Hazards identification

Irritating to eyes, respiratory system and skin.

5. First aid measures

Eyes: Rinse thoroughly with plenty of water and seek medical advice.

Skin: Take off all contaminated clothing, wash with plenty of water.

Ingestion: Immediately drink plenty of water; Seek medical advice and show this container or label.

Inhalation: Provide with fresh air.

6. Fire fighting and measures

Flash point: 109°C

Suitable extinguishing media: Carbon dioxide, foam, powder.

Special protective equipment for fire fighting: Do not stay in danger zone without self-contained breathing apparatus.

Other information: Cool container with water spray from a safe distance. Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater. Keep away from sources of ignition.

Special risks: May form explosive mixtures with air at ambient temperatures. Development of hazardous combustion gases or vapors possible in the event of fire.

7. Accidental release measures

Person-related precautionary measures: Do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.

Environmental-protection measures: Do not allow to enter sewage system.

Procedures for cleaning/absorption: Take up with liquid-absorbent material. Forward for disposal. Clean affected area.

8. Handling and storage

Handling: Take precautionary measures against static discharges. Keep away from source of ignition. When using do not eat or drink.

Storage: Tightly closed, in a well-ventilated place. Keep away from source of ignition - no smoking.

9. Exposure controls and personal protection

General information: Avoid contact with eyes, skin, clothing, and breathing vapor.

Clothing: Should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: Required when vapors/aerosols are generated.

Eyes: Wear eye/ face protection.

Hand: Wear suitable gloves.

Industrial hygiene: Change contaminated clothing. Application of skin-protective barrier cream recommended. Wash hands after working with substance.

10. Stability and reactivity

Chemical stability: Stable under normal temperatures and pressures.

Conditions to avoid: Heating.

Incompatibilities with other materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

11. Toxicological information

LD₅₀ oral, rat: N/A

LD₅₀ dermal, rabbit: 500 mg/24h

LD₅₀ inhalation, rat: N/A

12. Ecological information

N/A

13. Disposal considerations

Product: According to official local regulations.

Packing: According to official 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.