

Add: Room 2805, North Fuxinhuiyu, Changqing Road, Wuhan, China 430015

Tel: +86-27-5984 3600 Fax:+86-27-6666 0488

### **MATERIAL SAFETY DATA SHEET**

#### **Product Identification**

### [Product Name]

Dihydro-2H-pyran-2,6(3H)-dione

## [Synonyms]

2H-Pyran-2,6(3H)-dione, dihydro-Glutaric acid anhydride Pentanedioic acid anhydride Pentanedioic anhydride Pyroglutaric acid

[CAS] 108-55-4

【Formula】C5H6O3

[Molecular Weight] 114.1

**[EINECS]** 203-593-6

[RTECS] MA3850000

[RTECS Class] Other

【Beilstein/Gmelin】110051

【Beilstein Reference】 5-17-11-00009

**[EC Class]** harmful, irritant

## **Physical and Chemical Properties**

**[Appearance]** White powder.

[Solubility in water] Very soluble

[Melting Point] 52 - 55

**【Boiling Point】** 287



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**[Vapor Pressure]** 0.003 (25 C)

**[Density]** 1.411 g/cm3

**[Partition Coefficient]** -.92

【Heat Of Vaporization】 52.6

【Heat Of Combustion】-2207 kJ/mol

#### **First Aid Measures**

## [Ingestion]

Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

### [Inhalation]

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

## [Skin]

Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

### [Eyes]

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

## **Handling and Storage**

### [Storage]

Store in a cool, dry place. Keep container closed when not in use.

### [Handling]

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

#### **Hazards Identification**

### [Ingestion]

May cause central nervous system depression. May cause gastrointestinal tract damage. May be harmful if swallowed.

#### [Inhalation]



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Causes respiratory tract irritation.

### (Skin)

Causes skin irritation. If absorbed, may cause symptoms similar to those for ingestion. May be harmful if absorbed through the skin.

**[Eyes]** Causes eye irritation.

**[EC Risk Phrase]** R 21/22 37/38 41

**[EC Safety Phrase]** S 26 36/37/39

## **Exposure Controls/Personal Protection**

### **[Personal Protection]**

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

## [Respirators]

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

[Poison Class] 4

**Fire Fighting Measures** 

【Flash Point】120

【Autoignition】320

### **[Fire Fighting]**

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing media: Do NOT use water directly on fire. Use foam, dry chemical, or carbon dioxide.

【Upper exp. limit】 13.1

【Lower exp. limit】2



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### **Accidental Release Measures**

## [Small spills/leaks]

Clean up spills immediately, using the appropriate protective equipment. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

## **Stability and Reactivity**

## 【Disposal Code】4

## **Stability**

May decompose on exposure to moist air or water.

## [Incompatibilities]

Strong oxidizing agents, acids, bases, alcohols, amines.

## [Decomposition]

Carbon monoxide, carbon dioxide, acrid smoke and fumes.

## **Transport Information**

**[HS Code]** 2917 19 90