



# Wuhan Xinru Chemical Industry Co., Ltd

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】DL-Tartaric acid

【Synonyms】

2,3-Dihydroxybutanedioic acid

Paratartaric acid

Racemic acid

Racemic tartaric acid

Uvic acid

【CAS】133-37-9

【Formula】C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>

【Molecular Weight】150.09

【EINECS】205-105-7

【Merck】12,9236

【Beilstein/Gmelin】1725148

【Beilstein Reference】4-03-00-01229

### Physical and Chemical Properties

【Appearance】White crystalline, odorless powder.

【Solubility in water】206 g/L

【Melting Point】220

【Density】1.699 g/cm<sup>3</sup>

【pKa/pKb】3.07 (pKa)

【Usage】

A constituent of many proprietary granular effervescent preparations.

### First Aid Measures

【Ingestion】

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 if irritation or symptoms occur.

【Inhalation】

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

【Skin】

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

【Eyes】



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Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

## Handling and Storage

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### 【Storage】

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### 【Handling】

Wash thoroughly after handling. Use only in a well ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

## Hazards Identification

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### 【Ingestion】

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

### 【Inhalation】

Dust is irritating to the respiratory tract. The toxicological properties of this substance have not been fully investigated.

### 【Skin】

May cause skin irritation. The toxicological properties of this material have not been fully investigated.

### 【Eyes】

May cause eye irritation. Causes redness and pain. The toxicological properties of this material have not been fully investigated.

【EC Risk Phrase】 R 36/37/38

【EC Safety Phrase】 S 26 36

## Exposure Controls/Personal Protection

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### 【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 protective 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

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【Flash Point】 210

【Autoignition】 428

【Fire Fighting】



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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. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Extinguishing media: Use agent most appropriate to extinguish fire. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

【Upper exp. limit】 18.7

【Lower exp. limit】 3

### Accidental Release Measures

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#### 【Small spills/leaks】

Clean up spills immediately, using the appropriate protective equipment. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

### Stability and Reactivity

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【Incompatibilities】 Oxidizing agents.

【Stability】 Stable under normal temperatures and pressures.

【Decomposition】 Carbon monoxide, carbon dioxide.