



**Specialized in chemicals**

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,  
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418682

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

## **Material Safety Data Sheet**

### **GLUTARIC ACID**

#### **Section 1: Chemical Product and Company Identification**

**MSDS Name:**GLUTARIC ACID

**Synonyms:**a,-Propanedicarboxylicacid;glutaric;Glutarsaure;1,3-PROPANEDICARBOXYLIC ACID;1,5-PENTADIOIC ACID;1,5-PENTANEDIOIC ACID;GLUTARIC ACID AND ANHYDRIDE;GLUTARIC ACID

**Contact Information for Emergency:** (0086) 551 65418682

**Hefei TNJ Chemical Industry Co.,Ltd.**

B911 Xincheng Business Center

Tel : (0086) 551 65418682

Qianshan Road, Hefei

Fax: (0086) 551 65418697

230004Anhui

Email: info@tnjchem.com

China

Site: www.tnjchem.com

#### **Section 2: Composition and Information on Ingredients**

**Composition:**

<b>Name</b>	<b>CAS # %</b>	<b>By Weight</b>
GLUTARIC ACID	110-94-1	100%

#### **Section 3: Hazards Identification**

## Emergency Overview

-----  
**CAUTION! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.**

## Potential Health Effects

### Inhalation:

May cause irritation to the respiratory tract.

### Ingestion:

No information found, but based on animal studies, substance is presumed to be low in oral toxicity. May cause irritation to the gastro-intestinal tract.

### Skin Contact:

May cause irritation.

### Eye Contact:

May cause irritation, redness and pain.

### Chronic Exposure:

No information found.

### Aggravation of Pre-existing Conditions:

No information found.

## Section 4: First Aid Measures

### Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

### Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

### Skin Contact:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

### Eye Contact:

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

## Section 5: Fire Fighting Measures

### Fire:

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

### Explosion:

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide.

### Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## Section 6: Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

## Section 7: Handling and storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

## Section 8: Exposure controls/personal protection

### **Airborne Exposure Limits:**

None established.

### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

### **Personal Respirators (NIOSH Approved):**

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear protective gloves and clean body-covering clothing.

### **Eye Protection:**

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

## Section 9: Physical and chemical properties

### **Appearance:**

White crystals.

### **Odor:**

No information found.

### **Solubility:**

Soluble in water (g/100ml.): 42.9 @ 0C (32F), 63.9 @ 20C (68F)

### **Specific Gravity:**

1.4 @ 15C

### **pH:**

No information found.

**% Volatiles by volume @ 21C (70F):**

0

**Boiling Point:**

200C (392F) @ 20 mm Hg

**Melting Point:**

95 - 98C (203 - 208F)

**Vapor Density (Air=1):**

No information found.

**Vapor Pressure (mm Hg):**

No information found.

**Evaporation Rate (BuAc=1):**

No information found.

**Section 10: Stability and reactivity**

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

Carbon dioxide and carbon monoxide may form when heated to decomposition.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Strong oxidizers.

**Conditions to Avoid:**

No information found.

**Section 11: Toxicological information**

Oral mouse LD50: 6000 mg/Kg  
 -----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Glutaric Acid (110-94-1)	No	No	None

**Section 12: Ecological information**

**Environmental Fate:**  
 No information found.

**Environmental Toxicity:**  
 No information found.

**Section 13: Disposal considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**Section 14: Transport information**

Not regulated.

**Section 15: Regulatory information**

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Glutaric Acid (110-94-1)	Yes	Yes	Yes	Yes
-----\Chemical Inventory Status - Part 2\-----				
Ingredient	korea	DSL	NDSL	Canada Phil.
Glutaric Acid (110-94-1)	Yes	Yes	No	Yes
-----\Federal.State & International Rgulations-- Part 1\-----				
Ingredient		RQ	-SARA 302- TPQ	-----SARA 313----- List Chemical Catg.
Glutaric Acid (110-94-1)		No	No	No No
-----\Federal.State & International Rgulations-- Part2\-----				
Ingredient		CERCLA	261.33	8(d)
Glutaric Acid (110-94-1)		No	No	No
Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No (Pure / Solid)				
<b>Australian Hazchem Code:</b> No information found.				
<b>Poison Schedule:</b> No information found.				
<b>WHMIS:</b> This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.				

**Section 16: Other Information**

**NFPA Ratings:Health:1 Flammability: 1 Reactivity: 0**

**Label Hazard Warning:**  
CAUTION! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

**Label Precautions:**

Do not breathe dust. Avoid contact with eyes, skin and clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

**Label First Aid:**

If swallowed, call a physician immediately. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

Pure. New 16 section MSDS format, all sections have been revised.