



*Specialized in chemicals*

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,  
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418695

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

## Material Safety Data Sheet

### Tartaric acid MSDS

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

**Product details:**

· Trade name: DL TARTARIC ACID ; (+-)-Tartaric acid

· **Synonym(s):**

Tartaric acid DL(-), synth.

D,L-Weinsäure

**Contact Information:**

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

B911 Xincheng Business Center

Qianshan Road, Hefei

230004Anhui

China

Tel : (0086) 551 65418695

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

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

· **Chemical characterization:**

· **CAS No. Designation:**

133-37-9 (+-)-Tartaric acid

· **Identification number(s):**

· **EINECS Number:** 205-105-7

### Section 3: Hazards Identification

#### Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**

GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xi; Irritant

R36: Irritating to eyes.

· **Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

· **Hazard pictograms**

GHS07

· **Signal word** Warning

· **Hazard statements**

H319 Causes serious eye irritation.

· **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

· **Labelling according to EU guidelines:**

The product has been classified/labelled in accordance with EC Directives / relevant national laws.

### Section 4: First Aid Measures

· **General information:** Remove contaminated clothing.

· **After inhalation:** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact:**

Rinse with plenty of water.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

### Section 5: Fire and Explosion Data

· **Suitable extinguishing agents**

Product does not burn - take extinguishing measures according to fire conditions.

· **Special hazards caused by the material, its products of combustion or flue gases:**

Risk of dust explosion.

Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub> )

· **Protective equipment:** Wear self-contained breathing apparatus.

## Section 6: Accidental Release Measures

· **Person-related safety precautions:**

Ensure adequate ventilation.

Remove all ignition sources.

Avoid contact with skin and eyes.

Avoid causing dust.

Avoid breathing dust.

Wear protective equipment. Keep unprotected persons away.

· **Measures for environmental protection:**

Damp down dust with water spray jet.

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

· **Measures for cleaning/collecting:**

Ensure adequate ventilation.

Collect mechanically.

Send for recovery or disposal in suitable containers.

Dispose of the material collected according to regulations.

## Section 7: Handling and Storage

· **Handling**

· **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be removed regularly.

Do not breathe dust.

Make sure that all applicable workplace limits are observed.

Avoid contact with eyes.

Avoid long or repeated skin contact.

· **Information about protection against explosions and fires:**

Dust can combine with air to form an explosive mixture.

Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

Protect from heat and direct sunlight.

· **Storage**

· **Requirements to be met by storerooms and containers:**

Observe all local and national regulations for storage of water polluting products.

Unsuitable material for container:

Metals

- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed containers.  
Protect from humidity and keep away from water.

## Section 8: Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**  
Observe all workplace limits for dust.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Do not eat, drink or smoke while working.  
Do not breathe dust.  
Avoid contact with the eyes and skin.  
Wash hands during breaks and at the end of the work.  
Use skin protection cream for preventive skin protection.
- **Breathing equipment:**  
If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
- **Recommended filter device for short term use:** Partikelfilter EN 143 Type P2 or P3
- **Protection of hands:**  
Impervious gloves  
To avoid skin problems reduce the wearing of gloves to the required minimum.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.  
Check the permeability prior to each renewed use of the glove.
- **Material of gloves**  
Nitrile rubber - NBR  
Recommended thickness of the material:  $\geq 0,11$  mm  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
Penetration time:  $\geq 8$  hours  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
Protective gloves should be replaced at first signs of wear.
- **Eye protection:** Tightly sealed safety glasses
- **Body protection:**  
Protective work clothing

Protective clothing should be selected specifically for the working place.

## Section 9: Physical and Chemical Properties

### · General Information

#### · Appearance:

**Form:** crystalline powder

**Colour:** colourless

· **Smell:** recognizable

#### · Change in condition

**Melting point/Melting range:**

**Boiling point/Boiling range:** not determined

· **Flash point:** 210°C (CC)

· **Inflammability (solid, gaseous)** Product is not inflammable.

· **Ignition temperature:** 425°C

· **Danger of explosion:** Formation of ignitable/explosive dust/air mixtures possible.

· **Density at 20°C:** 1,76 g/cm<sup>3</sup>

#### · Solubility in / Miscibility with

**Water at 20°C:** 1390 g/l

## Section 10: Stability and Reactivity Data

### Thermal decomposition / conditions to be avoided:

Avoid impact, friction, heat, sparks, electrostatic charges.

To avoid thermal decomposition do not overheat.

Moisture

#### · Materials to be avoided:

Strong oxidizing agents

Silver

Metals

Fluorine

· **Dangerous reactions** Risk of dust explosion if enriched with fine dust in presence of air.

**Dangerous products of decomposition:** Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub> )

## Section 11: Toxicological Information

### · Acute toxicity:

#### · Primary irritant effect:

· **on the skin:** Slightly irritating

- **on the eye:** Irritant effect
- **Sensitization:** No sensitizing effect known.
- **Other information (about experimental toxicology):** Ames test: negative

## Section 12: Ecological Information

### · **Additional ecological information:**

### · **General notes:**

There are no quantitative data on the ecological effects of this product available to us.

Water hazard class 1 (Self-assessment): slightly hazardous for water

## Section 13: Disposal Considerations

### **Product:**

- **Recommendation** Disposal must be made according to official regulations.

### · **European waste catalogue:**

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

### · **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleaning agent:** Water

## Section 14: Transport Information

### · **Land transport ADR/RID (cross-border):**

- **ADR/RID Class:** -

### · **Maritime transport IMDG-Code:**

- **IMDG Class:** -

### · **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

- **UN "Model Regulation":** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

## Section 15: Other Regulatory Information

<ul style="list-style-type: none"><li>· <b>Labelling according to Regulation (EC) No 1272/2008</b></li><li>· <b>Hazard pictograms</b> GHS07</li><li>· <b>Signal word</b> Warning</li><li><b>Hazard statements</b> H319 Causes serious eye irritation.</li><li>· <b>Precautionary statements</b> P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.</li><li>· <b>Designation according to EC guidelines:</b> The product has been classified/labelled in accordance with EC Directives / relevant national laws.</li><li>· <b>Code letter and hazard designation of product:</b> Xi Irritant</li><li>· <b>Risk phrases:</b> 36 Irritating to eyes.</li><li>· <b>Safety phrases:</b> 24/25 Avoid contact with skin and eyes.</li><li>· <b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.</li><li>· <b>National regulations</b></li><li>· <b>Information about limitation of use:</b> Employment restrictions concerning young persons must be observed.</li><li>· <b>Decree to be applied in case of technical fault:</b> -</li><li>· <b>Water hazard class:</b> Water hazard class 1 (Self-assessment): slightly hazardous for water.</li></ul>
--

<b>Section 16: Other Information</b>
<p><b>References:</b> Not available.</p> <p><b>Other Special Considerations:</b> Not available.</p> <p><b>Created:</b> 06/1/2011</p> <p><b>Updated:</b> 06/12/2011</p> <p><i>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.</i></p>

