



## Material Safety Data Sheet

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### 1. Identification of the substance/preparation and of the company/undertaking

*Identification of the product*

Tetrahydrofuran

*Manufacturer/supplier identification*

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

Address: No.295 Daxue Road,Shantou

PostCode:515000

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P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312	If swallowed: call a poison center/ doctor if you feel unwell.
P305 + P351 + P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	If exposed or concerned: Get medical advice/ attention.

### 3. Composition/information on ingredients

#### *Synonyms*

Tetrahydrofuran

CAS-No.: 109-99-9

*M*: 72.10g/mol

Molecular formula: C<sub>4</sub>H<sub>8</sub>O

### 4. First aid measures

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. Fire-fighting measures

#### **Suitable extinguishing media**

Use alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### 6. Accidental release measures

#### **Personal precautions**

General industrial hygiene practice.

**Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains. Discharge into the environment must be avoided.

**9. Physical and chemical properties**

**Form:** liquid

**Colour:** colorless

**Odour:** ether-like

**pH value:** not available

**Melting point:** -108.5 °C

**Boiling point:** 65~66 °C

**Ignition temperature:** 321.0 °C

**Flash point:** -17 °C

**Autoignition temperature:** not available

**Explosion limits**

**lower:** 1.8 %(V) - (THF)

**upper:** 11.8 %(V) - (THF)

**Density :** 0.89 g/cm<sup>3</sup>

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** miscible

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

**10. Stability and reactivity****Chemical stability**



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butyl hydroxytoluene (BHT) (<0,0250,0249 %)

### Conditions to avoid

Heat, flames and sparks.

Warming.

Moisture.

### Materials to avoid

rubber, various plastics, Tin

### Hazardous decomposition products

Peroxides

In the event of fire: see section 5

## 11. Toxicological information

### Acute toxicity

Acute toxicity estimate Oral - 1.651 mg/kg

(Calculation method)

Suspected of causing cancer.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation. - Respiratory system

May cause drowsiness or dizziness. - Nervous system

**Specific target organ toxicity - repeated exposure**

**Aspiration hazard**

No data available

**12. Ecological information**

**Toxicity**

Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) -

2.160 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia

and other aquatic

invertebrates

static test EC50 - Daphnia magna (Water flea) - 3.485 mg/l - 48 h

(OECD Test Guideline 202)

Toxicity to bacteria static test EC20 - activated sludge - ca. 800 mg/l - 0,5 h

(OECD Test Guideline 209)

**Persistence and degradability**

Biodegradability aerobic Biochemical oxygen demand - Exposure time 28 d

Result: 39 % - Not readily biodegradable.

(OECD Test Guideline 301D)

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

No data available

**13. Disposal considerations**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. Transport information**

**ADR/RID**

UN-Number:2056 Class:3 Packing group: II

Proper shipping name: TETRAHYDROFURAN

**IMDG**



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UN-Number:2056 Class:3 Packing group: II  
Proper shipping name: TETRAHYDROFURAN  
Marine pollutant: no

### **IATA**

UN-Number: 2056 Class: 3 Packing group: II  
Proper shipping name: Tetrahydrofuran

### **15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.