

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

Identification of the product

tert-Butanol

Manufacturer/supplier identification

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

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2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids (Category 2)

Acute toxicity, Inhalation (Category 4)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

Label elements

Pictogram

Signal word Danger

Hazard statement(s)

H225

GHTECH Material Safety Data Sheet

Molecular formula: $(\text{CH}_3)_3\text{COH}$

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 water spray, alcohol

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

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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.

9. Physical and chemical properties

Form: crystals or liquid

Colour: colorless

Odour: not available

pH value: not available

Melting point: 24~25.5 °C.

Boiling point: 82~83 °C

Ignition temperature: not available

Flash point: 15 °C - closed cup

Autoignition temperature: not available

Explosion limits

lower: 2.3 %(V)

upper: 8 %(V)

Density : 0.78 g/cm³

Bulk density: not available

Solubility in

water (20 °C) : soluble in water

diluted acids (20 °C) : not available

Thermal decomposition: not available

10. Stability and reactivity

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Heat, flames and sparks.

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition products

Other decomposition products - no data available

11. Toxicological information

Acute toxicity

LC50 Inhalation - Rat - 4 h - 36 mg/l

Skin corrosion/irritation

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no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

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.

GHTECH Material Safety Data Sheet

UN-Number: 1120 Class: 3 Packing group: II
Proper shipping name: BUTANOLS

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.