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

Identification of the product
Dimethyl sulfoxide
Manufacturer/supplier identification
Company: Guangdong Guanghua Sci-Tech Co.,Ltd
Address: No.295 Daxue Road,Shantou
PostCode:515000
E-mail: export@ghtech.com
Emergency telephone No.: +86-754-82515813
Fax No.: +86-754-88221999

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Flammable liquids (Category 4)

Label elements
Pictogram None

Signal word Warning

Hazard statement(s)
H227 Combustible liquid.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear eye protection/ face protection.
P370 + P380	In case of fire: Evacuate area.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements
none

3. Composition/information on ingredients

Synonyms
Dimethyl sulfoxide
CAS-No.: 67-68-5
M: 78.13 g/mol
Molecular formula: $(CH_3)_2SO$

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-resistant foam, dry chemical or carbon dioxide.

Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures

Personal precautions
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

7. Handling and storage

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls and personal protection

Appropriate engineering controls
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
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: clear liquid
Colour: colorless
Odour: not available
pH value: not available
Melting point: 18.45°C.
Boiling point: 189°C
Ignition temperature: not available
Flash point: 87°C
Autoignition temperature: not available
Explosion limits
lower: 3.5 %(V)
upper: 42 %(V)
Density :1.10 g/cm^3
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
no data available
Hazardous decomposition products
Other decomposition products - no data available

11. Toxicological information

Acute toxicity
LD50 Oral - Rat - 14,500 mg / kg
LC50 Inhalation - Rat - 4 h - 40250 ppm
LD50 Dermal - Rabbit - > 5,000 mg/kg
Skin corrosion or irritation
no data available
Serious eye damage or eye irritation
no data available
Respiratory or skin sensitization
no data available
Germ cell mutagenicity
no data available
Reproductive toxicity

no data available

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Material Safety Data Sheet