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

Identification of the product
Diethylene glycol monobutyl ether
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]
Acute toxicity, Oral (Category 5)
Acute toxicity, Dermal (Category 5)
Skin corrosion/irritation (Category 3)
Serious eye damage/eye irritation (Category 2A)

Label elements
Pictogram

Signal word Warning

Hazard statement(s)

H303 + H313	May be harmful if swallowed or in contact with skin.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.

Precautionary statement(s)

P264	Wash skin thoroughly after handling.
P280	Wear eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/ doctor if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.

Supplemental Hazard Statements
none

3. Composition/information on ingredients

Synonyms
Diethylene glycol monobutyl ether
CAS-No.: 112-34-5
M: 162.23 g/mol

Molecular formula: $C_8H_{18}O_3$

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
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. 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. Discharge into the environment must be avoided.

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
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: liquid

Colour: colorless

Odour: not available

pH value: 7

Melting point: -68 ℃

Boiling point: 231℃

Ignition temperature: not available

Flash point: 99℃

Autoignition temperature: not available

Explosion limits

lower: 0.9 %(V)

upper: 6.2 %(V)

Density : 0.95 g/cm^3

Bulk density: 5.6 g/cm^3

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
Strong heating.

Materials to avoid
Aluminum, Light metals

Hazardous decomposition products
Other decomposition products - no data available

11. Toxicological information

Acute toxicity

LD50 Oral - Mouse - male - 2,410 mg/kg
LD50 Dermal - Rabbit - male - 2,764 mg/kg

Skin corrosion/irritation
Skin - Rabbit - Mild skin irritation - 1 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Causes serious eye irritation. - 72 h

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.

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

12. Ecological information

Toxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill sunfish) - 1,300 mg/l- 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h
Toxicity to algae	ErC50 - Desmodesmus subspicatus (green algae) - > 100mg/l - 96 h
Toxicity to bacteria	EC10 - activated sludge - > 1,995 mg/l - 30 min

Persistence and degradability
Biodegradability
aerobic - Exposure time 28 d
Result: ca.85 % - Readily biodegradable.

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.

4. Transport information

ADR/RID
UN-Number: - Class: - Packing group: -
Proper shipping name: Not dangerous goods

IMDG
UN-Number: - Class: - Packing group: -
Proper shipping name: Not dangerous goods
Marine pollutant: no

IATA
UN-Number: - Class: - Packing group: -
Proper shipping name: Not dangerous goods

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.