

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

Identification of the product

Formaldehyde solution

Manufacturer/supplier identification

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

Address: No.295 Daxue Road,Shantou

PostCode:515000

E-mail: export@ghitech.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)

Acute toxicity, Oral (Category 3)

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Dermal (Category 3)

Skin irritation (Category 1B)

Serious eye damage/eye irritation (Category 1)

Skin sensitization (Category 1)

Germ cell mutagenicity (Category 2)

Carcinogenicity (Category 1A)

Specific target organ toxicity - single exposure (Category 1)

Short-term (acute) aquatic hazard (Category 2)

Label elements

Pictogram



Signal word Danger

Hazard statement(s)

H227 Combustible liquid

H301 Toxic if swallowed

H311 Toxic in contact with skin

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

H401 Toxic to aquatic life.

Precautionary statement(s)

P203 Before use, read and follow all safety instructions.

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

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Material Safety Data Sheet

P260	Do not breathe mist or vapors.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P265	Don't touch the eyes.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 + P316	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.
P302 + P352	IF ON SKIN: wash with plenty of water.
P302 + P361 + P354 + P316	IF ON SKIN: Remove all contaminated clothing immediately. Immediately rinse with water for a few minutes. Seek immediate medical attention.
P304 + P340 + P316	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Seek immediate medical attention.
P305 + P351 + P338 + P317	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. seek medical attention
P308 + P316	If exposed or in doubt: Seek immediate medical attention.
P318	If exposed or in doubt, seek medical attention.
P321	Specialized treatment (see additional first aid instructions on this label).
P333 + P317	If skin irritation or rash occurs: Seek medical attention.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements
none

3. Composition/information on ingredients

Synonyms

Formaldehyde solution

M: 30.03 g/mol

Molecular formula: CH₂O

Component	Percent	CAS-No.:
Formaldehyde	37.0%~40.0%	50-00-0
Methanol	10.0%~13.0%	67-56-1

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

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. 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

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**

Wear respiratory protection. 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 (see section 13).

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: colourless

Odour: pungent

pH value: not available

Melting point: -15 °C.

Boiling point: 93~96 °C

Ignition temperature: not available

Flash point: 61°C

Autoignition temperature: not available

Explosion limits

lower: 7 %(V)

upper: 73 %(V)

Density : 1.05~1.09 g/cm³

Bulk density: 1.04 g/cm³

Solubility in

water (20 °C) : freely 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

no data available

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

Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (Formaldehyde)

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**

no data available

Persistence and degradability

no data available

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:2209 Class:8 Packing group: III

Proper shipping name: Formaldehyde solution

IMDG

UN-Number:2209 Class:8 Packing group: III

Proper shipping name: Formaldehyde solution

Marine pollutant: no

IATA

UN-Number:2209 Class:8 Packing group: III

Proper shipping name: Formaldehyde solution

15. Regulatory information

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

16. Other information

General update.

Regional representation:

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