

# SAFETY DATA SHEET

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

Product Name:Methanol CAS: 67-56-1 Application: Laboratory chemicals, Manufacture of substances Manufacturer: Sinopharm Chemical Reagent Co.,Ltd. No.52 Ning Bo Road, Shanghai 200002, China Fax: 86-021-6321403 Emergency Telephone: 86-0532-83889090 Email: sj\_zjzx@sinopharm.com Website: http://www.reagent.com.cn MSDS No: SCRC CSDS67-56-1 Methanol

# 2. Hazards identification

Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2), H225Acute toxicity, Oral (Category 3), H301Acute toxicity, Inhalation (Category 3), H331Acute toxicity, Dermal (Category 3), H311Specific target organ toxicity - single exposure (Category 1), H370 Label elements

Labelling according Regulation (EC) No 1272/2008





#### Signal word: Danger

Hazard statement(s):H225 Highly flammable liquid and vapour.H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaledH370 Causes damage to organs.

Precautionary statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable forbreathing. Call a POISON CENTER or doctor/ physician. P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician. P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam toextinguish.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

none

# 3. Composition/information on ingredients

Substance/Mixture: Substance

Component	CAS RN	Concentration
Methanol	67-56-1	≤100

4. First aid measures

# Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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. Take victim immediately to hospital. 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 aphysician. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 Indication of any immediate medical attention and special treatment needed

#### 5. Firefighting measures

#### Extinguishing media

Suitable extinguishing mediaDry powder Dry sandUnsuitable extinguishing mediaDo NOT use water jet. Special hazards arising from the substance or mixture Carbon oxides Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Further information No data available

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sourcesof ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

### 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 non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Reference to other sections

#### For disposal see section 13.

# 7. Handling and storage

#### Precautions for safe handling

Avoid contact with skin and eves. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.

# Conditions for safe storage, including any incompatibilities

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. Storage class (TRGS 510): Flammable liquids

# Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### 8. Exposure controls/personal protection Control parameters

# Components with workplace control parameters

MAC: -PC-STEL: 50 TLV-TWA: No data available PC-TWA: 25 TLV-C: No data available TLV-STEL: No data available Exposure controls

# Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product

# Personal protective equipment

# Eye/face protection

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

#### Skin protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substanceat the specific workplace. 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. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact thesupplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurposecombination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineeringcontrols. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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 Information on basic physical and chemical properties

- a) Appearance
- b) Odour
- c) Odour Threshold
- d) pH e) Melting point/freezing point
- f) Initial boiling point and boiling range
- g) Flash point
- h) Evapouration rate

Form: liquidColour: colourless pungent No data available No data available -98℃ 64-65°C/760mmHg 51.8°F/11°C No data available

k) Vapour pressure 130.3hPa (20.0°C) 1) Vapour density 1.11 m) Relative density ρ (20)0.791-0.794g/mL completely miscible n) Water solubility o) Partition coefficient:noctanol/water -0.77 p) Auto-ignition temperature 455.0℃在1,013hPa No data available q) Decomposition temperature No data available r) Viscosity s) Explosive properties Not explosive t) Oxidizing properties The substance or mixture is not classified as oxidizing. Other safety information No data available. 10. Stability and reactivity Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid Heat, flames and sparks. Incompatible materials Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids Hazardous decomposition products Other decomposition products - No data availableIn the event of fire: see section 511. Toxicological information Information on toxicological effects Acute toxicity LDLO Oral - Human - 143 mg/kgRemarks: Lungs, Thorax, or Respiration:Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting anddiarrhoea. LD50 Oral - Rat - 1, 187 - 2, 769 mg/kgLC50 Inhalation - Rat - 4 h - 128.2 mg/lLC50 Inhalation -Rat - 6 h - 87.6 mg/lLD50 Dermal - Rabbit - 17,100 mg/kgNo data available Skin corrosion/irritation Skin - RabbitResult: No skin irritation Serious eye damage/eye irritation Eyes - RabbitResult: No eye irritation Respiratory or skin sensitization Maximisation Test (GPMT) - Guinea pigDoes not cause skin sensitisation. (OECD Test Guideline 406) Germ cell mutagenicity Ames testS. typhimuriumResult: negativein vitro assayfibroblastResult: negativeMutation in mammalian somatic cells.Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)Mouse - male and femaleResult: negative Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified asprobable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as aknown or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as acarcinogen or potential carcinogen by OSHA. Reproductive toxicity Damage to fetus not classifiableFertility classification not possible from current data. Specific target organ toxicity - single exposure Causes damage to organs. Specific target organ toxicity - repeated exposure The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Aspiration hazard No aspiration toxicity classification

No data available

No data available No data available

# Additional Information

i) Flammability (solid, gas)

j) Upper/lower flammability or explosive limits

RTECS: PC1400000Effects due to ingestion may include:, Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures., Methylalcohol may be fatal or cause blindness if swallowed.Stomach - Irregularities - Based on Human EvidenceStomach -Irregularities - Based on Human Evidence

# 12. Ecological information

# Toxicity

Toxicity to fish mortality LC50 - Lepomis macrochirus (Bluegill) - 15,400.0 mg/l - 96 hNOEC - Oryzias latipes - 7,900 mg/l - 200 hToxicity to daphnia andother aquaticinvertebratesEC50 - Daphnia magna (Water flea) - > 10,000.00 mg/l - 48 hToxicity to algae Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) -22,000.0 mg/l - 96 h

# Persistence and degradability

Biodegradability aerobic - Exposure time 5 dResult: 72 % - rapidly biodegradableBiochemical OxygenDemand (BOD)600 - 1,120 mg/gChemical OxygenDemand (COD)1,420 mg/gTheoretical oxygendemand1,500 mg/g

# Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 72 dat 20  $^\circ$  C - 5 mg/lBioconcentration factor (BCF): 1.0 Mobility in soil

Will not adsorb on soil.

Results of PBT and vPvB assessment

#### No data available Other adverse effects

Additional ecological informationAvoid release to the environment. Stability in water at 19  $^\circ$  C83 - 91 % - 72 h Remarks: Hydrolyses on contact with water. Hydrolyses readily

# 13. Disposal considerations

### Waste treatment methods

Product Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

# Contaminated packaging

Dispose of as unused product.

# 14. Transport information

#### UN number

ADR/RID:1230	IMDG:1230	IATA:1230
UN proper shipping name		
ADR/RID: METHANOL	IMDG: METHANOL	IATA: METHANOL
Transport hazard class(es)		
ADR/RID:3(6.1)	IMDG:3(6.1)	IATA:3(6.1)
Packaging group		
ADR/RID:II	IMDG:II	IATA:II
Environmental hazards		
ADR/RID:no	IMDG:no	IATA:no

#### Special precautions for user

no data available

# 15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture

# No data available

# Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

# 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapour. H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaledH370 Causes damage to organs.

# Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sinopharm Chemical Reagent Co.,Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.