



## Zhejiang Castchem New Material Co.,Ltd

High Hydrogen content, high quality

### Material safety data sheet(MSDS)

#### Section 1-Chemical Product and Company Identification

Product brand :Castchem  
Sample Name :Methyl hydrogen Silicone Fluid  
Name in English :Methyl hydrogen Silicone Fluid  
Chemical Name :Polymethylhydrosiloxane  
CAS No :63148-57-2  
Item No :None

#### Company profile:

Manufacturer/Supplier identification : Zhejiang Castchem New Material Co.,Ltd

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#### Section 2-Hazards Identification

GHS Class :NA

#### Hazard summary:

Physical hazards : Ignitable. The chemical contents silicon-hydrogen bond(SiH), it may release the hydrogen during the storage.

#### Health hazards

Inhalation : No specific symptoms

Eyes touch : Mild irritation

Skin touch : No specific symptoms

Other hazards : NA

Environment hazards : No environmental hazards

#### Section 3- Composition/Information on Ingredients

>>Composition

#### Basic information:

Chemical Name	Content%	CAS No	EC No	Notice
Polymethylhydrosiloxane	100%	63148-57-2	NA	NA



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### Section 4 - First Aid Measures

- Basic information : In case of any symptoms, please have medical treatment.  
Contaminated clothing should be kept in airtight containers until the disposal or wash away.  
First aid measures:  
Inhalation : No special treatment.  
Skin touch : Remove contaminated clothing and shoes, clear with soap and water.  
Eye touch : Immediately rinse eyes with clear water at least 15 minutes.  
Ingestion : It is forbidden to vomit, gargle with water, go to a doctor.  
Acute and late effects of main symptoms : No data  
Medical care and special treatment : No data

### Section 5- Fire Fighting Measures

- Basic fire information: no data  
Extinguishing media:  
Suitable extinguishing media: foam and carbon dioxide.  
Inappropriate extinguishing media: Do not use direct fire to extinguish the fire, which will spread the flame. Alkaline dry powder fire extinguishing agent.  
Special hazards: flammable liquid, the product may release hydrogen. See section 10 for more information.  
Recommendations for firefighters:  
Special fire extinguishing method: spray water mist to cool the container.  
Special protective equipment to protect firefighters: wear self-contained breathing apparatus and full protective clothing.

### Section 6- Emergency Response to Leakage

- Operator protection measures, protective equipment and emergency response: put out all fire sources. Personal protective equipment, see section 8.  
Processing procedure: Yuan from alkaline metals and caustic products.  
Environmental protection measures: Collect spillage to prevent it from flowing into ditches, rivers and the ground. Deflagration, explosion hazard.  
Storage and removal methods of leakage chemicals and what to do: Use explosion-proof electrical, ventilation, and lighting equipment. Appropriately labelled containers for the disposal materials used for the collection of this product must be sealed and stored with an exhaust device. Absorb the residue with sand or inert materials. Rinse contaminated objects and floors with a suitable solvent, and then rinse with plenty of water.



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Preventive measures to prevent secondary hazards: The ground is relatively smooth to prevent slipping.

### Section 7- Handling and storage

Operational disposal:

Precautions for safe handling: Keep mechanical ventilation to prevent steam generation during operation. Use electrostatic grounding equipment and electrical equipment suitable for use in explosive atmospheres. Ground the container and transfer equipment to eliminate static electricity. Implement good industrial hygiene measures and wash after handling, especially before eating, drinking or smoking. For personal protection, see section 8.

Technical measures: ventilation

Special handling matters: Avoid mixing with incompatible materials.

store:

Conditions for safe storage: Store in the original sealed container. The equipment must have an exhaust device. Store in a cool, dry and ventilated place. Keep away from incompatible materials, open flames and high temperatures. The substance must be stored in an inert gas.

Technical information measures: ventilation.

Incompatible materials: see section 10.

Packaging material information: steel drum lined with epoxy resin.

### Section 8- Exposure control/personal protection

Control parameters:

Occupational exposure limit: no data

Engineering control method: No special recommendation.

Recommended personal protective equipment:

General requirements: Provide adequate ventilation to prevent vapor formation during operation.

Respiratory protection: If the air is not circulating, provide suitable respirators.

Hand protection: Rubber gloves are recommended.

Eye and face protection: safety glasses;

Skin and body protection: wear appropriate protective clothing;

Special precautions: provide eyewash and shower;

Operating environment control measures: no data

### Section 9- Physical and chemical properties

Exterior:

Physical state: liquid

Shape: sticky



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Color: colorless

Odor: faint smell

Odor threshold: no data

PH: Not applicable

Melting point/freezing point (°C): No data

Boiling point, initial boiling point and boiling range (°C): No data

Flash point (°C): about 93.4 (closed cup)

Flammability (solid, gas): No data

Combustion limit-upper limit [% (V/V)]: 74 hydrogen

Combustion limit-lower limit [% (V/V)]: 4 hydrogen

Vapor pressure (kPa): <0.1 (20°C)

Vapor density (air=1): no data

Evaporation rate: no data

Relative density (water): about 0.99 (20°C)

Solubility:

Solubility (water): almost insoluble

Solubility (others): any with acetone, ethanol, ether, aliphatic hydrocarbons, aromatic hydrocarbons and chlorinated solvents

Proportional miscibility

n-octanol/water partition coefficient: no data

Auto-ignition temperature (°C): 400 hydrogen

Decomposition temperature (°C): No data

Viscosity (25°C): 15~40mm<sup>2</sup>/s

Explosive: No data

Oxidizing: Through the components, it is not considered to be oxidizing (evaluation of the relationship between structure and activity)

### Section 10- Stability and reactivity

Reactivity: No data

Chemical stability: stable

Possibly hazardous reactions: hydrogen may be released during storage

Conditions to avoid: no data

Incompatible materials: strong oxidizer. When the product comes into contact with alkali metals or caustic products, it will release combustible gas hydrogen, which may cause fire or explosion. Compounds containing mobile hydrogen atoms. Such as metal salts and complexes.

Hazardous decomposition products: thermal degradation or combustion may release toxic gases and vapors of carbon and oxygen compounds, amorphous silica.

### Section 11- Toxicological information



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### Information on possible routes of contact:

Inhalation: No data

Ingestion: No data

Skin contact: No data

Eye contact: No data

### Information on toxicological effects:

#### Acute toxicity:

##### Oral:

Product: LD50 (rat): >2000 mg/kg

Specific substances:

##### Transdermal:

Product: No data

#### Specific substances:

##### Inhalation:

Product: No data

Specific substances:

##### Multi-dose toxicity:

Product: No data

Specific substances:

##### Skin irritation and corrosion:

Product: No data

Specific substances:

##### Serious eye damage and eye irritation:

Product: No data

Specific substances:

##### Respiratory or skin irritation:

Product: No data

Specific substances:

##### Germ cell mutagenicity:

Product: No data

Specific substances:

##### In vivo:

Product: No data

Specific substances:

##### Carcinogenicity:

Product: No data

Specific substances:



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Reproductive toxicity:

Product: No data

Specific substances:

Specific target organ toxicity-single exposure:

Product: No data

Specific substances:

Specific target organ toxicity-repeated exposure:

Product: No data

Specific substances:

Inhalation hazard:

Product: No data

Specific substances:

### Section 12- Ecological information

Ecotoxicity:

Acute toxicity:

fish:

Product: No data

Specific substances:

Aquatic invertebrates:

Product: No data

Specific substances:

Aquatic plants:

Product: No data

Specific substances:

Persistence and degradability:

Biodegradability:

Product: No biodegradability

Specific substances:

Biochemical oxygen demand ratio:

Product: No data

Specific substances:

Potential bioaccumulation

Product: No bioaccumulation

Specific substances:

Mobility in soil: no data

Other harmful effects: No data

### Section 13- Disposal



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Residual waste:

Basic information: Refer to relevant national and local regulations before disposal ;

Disposal methods: Dispose of in accordance with local laws, regulations and product characteristics, and safe incineration is recommended. Contaminated packaging should be emptied as much as possible, discarded in accordance with local laws, regulations and product characteristics, and recycled after cleaning or disposed of in a licensed place.

Waste disposal matters: no data

### Section 14- Transport information

Proper Shipping Name: Methyl hydrogen Silicone Fluid

Not Allowed-Aircraft:No

No hazardous according to RID,ADR,ADNR,IMDG,IATA-DGR

General information:Allowed to ocean transportation

IMDG/IMO:Not regulated

ADR/RID/ADN:Not regulated

### Section 15- Regulatory Information

Safety, health and environmental laws and regulations related to products or substances:

China Mainland

: Safety Production Law of the People's Republic of China

: The Environmental Protection Law of the People's Republic of China

: Law of the People's Republic of China on the Prevention and Control of Air Pollution

: Water Pollution Prevention and Control Law of the People's Republic of China

: Regulations on the Safety Management of Hazardous Chemicals

: Regulations on the Safe Use of Chemicals in the Workplace

: Detailed Rules for the Implementation of the Regulations on the Safety Management of

Chemical Dangerous Goods

: GB 13690-2009 chemical classification and hazard publicity

: GB 15258-2009 Regulations for the preparation of chemical safety labels

Its chemical area: no data

Chemical safety assessment: no data

### Section 16- Other information

Revision information: update to GHS version



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References: No data

Part 2&3 H statement: None

Training information: no data

Inventory status:

Australia AICS: on the catalog or subject to the catalog

Canadian DSL directory listing: on the directory or subject to the directory

EU EINECS list: on the list or subject to the list

Japanese ENCS list: on the list or subject to the list

List of Existing Chemicals in China: On the list or follow the list

Korea Existing Chemicals Inventory (KECI): On the list or follow the list

Philippine PICCS: on the list or subject to the list

US TSCA list: on the list or subject to the list

New Zealand Chemical List: on the list or subject to the list

Release Date: 2013-06-08

Statement: This safety data sheet should be used in conjunction with the technical manual and cannot replace the technical data. These materials are based on our knowledge of these products with good reputation at the time of publication. Users should pay attention to the risks that may arise when the product is used for other purposes. It is the responsibility of every user to take the required precautions against the product. The purpose of referring to mandatory regulations is to help users perform their duties of using dangerous goods. This information is not exhaustive. This does not exempt the user from ensuring that in addition to the above-mentioned legal obligations regarding the operation and disposal of this product does not exist, it is the user's own responsibility to operate and store the product.