

Newprecise (Ningbo) Industry Co., Ltd.

Material Safety Data Sheet (SDS)

Thermometer Temperature Sensing Liquid (Coal Oil)

Part I Chemicals and Enterprise Logos

Chinese name: Thermometer Temperature Sensing Liquid (Coal Oil)

Popular name or trade name: Coal oil

English name: Coal oil

Enterprise name: Newprecise (Ningbo) Industry Co., Ltd.

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Data sheet No.: 05053

Effective date: May 13, 2005

Part II Constituent/Composition Information

Name of chemical: coal oil

Constituent	Concentration	CAS No.
Coal oil	99.7%	8008-20-6
Toner	0.3%	/

Part III Risk Overview

Risk category: Category 3.3 High flash point flammable liquid

Invasion route: inhalation, ingestion

Health hazard: mildly stimulating skin and respiratory tract, causing skin degreasing, with potential influence on nervous system.

Environmental hazard: hazardous to aquatic organism.

Explosive hazard: flammable liquid

Part IV Emergency Treatment

Skin exposure: taking off polluted clothes, and thoroughly washing the skin with suds and rinsing.

Eye exposure: immediately lifting up the eyelid, and washing with flowing rinsing for at least 15 minutes. If stimulation still exists, please seek medical advice.

Inhalation: immediately leave the site for where there is fresh air. Artificial respiration

conducted if necessary.

Ingestion: emetic inadvisable, please seek medical advice.

Part V Fire Protection

Hazardous characteristics: flammable liquid, risk of burning in case of heat and open fire, reacting with oxidizing agent.

Hazardous combustion products: carbon monoxide, carbon dioxide.

Method of extinguishing and fire extinguishing agent:

Cooling the container by spraying water, extinguishing with dry powder, sandy soil, foam and carbon dioxide.

Precautions and measures:

The firemen shall wear self-contained breathing apparatus and heat-insulation suit to prevent from skin and eye exposure.

Part VI Emergency Treatment of Leakage

Emergency treatment:

Withdraw from the hazardous area and keep ventilating. Remove ignition source.

Adsorbing with inert materials (dry quicksand and vermiculite), and collecting in dry, clean and covered container for treatment. The treatment personnel shall wear proper heat-insulation suit.

Part VII Operation Treatment and Storage

Precautions for operation:

The operators shall be trained and strictly abide by operating instructions. They are suggested to wear anti-static suit, chemical protective gloves to avoid direct exposure to eyes and skin and inhalation. Open fire, spark and smoking are prohibited in workplace. There shall be ventilating system and equipment. Avoid exposure to oxidizing agent and inflammables. Please load and unload lightly, and avoid damp and loss due to broken package. Firefighting equipment and leakage emergency treatment equipment of certain type and quantity shall be outfit.

Precautions for storage:

Storing in cool and dry warehouse. Open fire and spark are prohibited. Avoiding exposure to blazing sun. Keeping the container enclosed. Keeping away from oxidizing agent and inflammables. Firefighting equipment and leakage emergency treatment equipment and appropriate collecting materials of certain type and quantity shall be outfit.

Part VIII Exposure Control/Individual Protection

Maximum allowable concentration: no standard

Monitoring method: N/A

Engineering control: closed system, pay attention to ventilating.
Respiratory system protection: wear face mask.
Eye protection: wear protective chemical safety glasses.
Body protection: wear anti-static suit.
Hand protection: wear protective chemical gloves.
Other protection: smoking and eating are prohibited in workplace. Shower and change dresses after work. Avoid long-term and repeated exposure.

Part IX Physicochemical Properties

Appearance and characters: red liquid, with a little smell.
PH value: no data
Flash point (°C): 51°C (closed cup) Relative density (water=1): 0.8
Upper explosive limit: 5% (volume fraction) Relative vapor density (air=1): 4.5
Lower explosive limit: 0.7% (volume fraction)
Solubility: insoluble in water, soluble in acetone and ethyl alcohol

Part X Stability and Reactivity

Stability: stable room temperature and normal pressure.
Avoid exposure to substances: strong oxidizing agent.
Avoid exposure to conditions: open fire, spark and smoking.
Polymerization risk: no polymerization.
Decomposition product: carbon monoxide, carbon dioxide.

Part XI Toxicology Data

Acute toxicity: Oral administration of mice $LD_{50} > 500\text{mg/kg}$;
Oral administration of rabbit $LD_{50} 2835\text{mg/kg}$
Irritation: mildly stimulating skin and respiratory tract.

Part XII Ecology Data

Ecological toxicity: no data.
Biological degradability: no data.
Non-biological degradability: no data.

Part XIII Waste Disposal

Property of waste: HW08 used mineral oil hazardous waste in *China Hazardous Waste List*.
Disposal method: refer to regulations of local environmental protection department, suggest to be disposed by qualified chemical waste treatment department.

Part XIV Transportation Information

Hazardous goods No.: 33501

UN No.: 1223

Package mark: inflammable liquid

Package category: III

Part XV Laws and Regulations

The substance is classified into 3.3 high flash point flammable liquid in GB 12268-1990 *List of Hazardous Goods*, with number 33501.

Regulations on Safety Management of Hazardous Chemicals: hazardous chemicals required to be listed in safety registration according to *Management Method for Registration of Hazardous Chemicals*.

New Management Method for Environment of Chemicals: listed in the existing list of chemicals of China.

Part XVI Other Information

Date of filling: May 13, 2005

Prepared by: SRICI Testing Center

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Note to modification: 0

Others:

The data sheet is prepared by our center as per GB 16483-2000 *Regulations on Preparing Chemicals Safety Data Sheet* (EQV: ISO 11014-1:1994) to the best of our knowledge. The consignee of the product shall formulate safety operation instructions according to MSDS or the production specification, combining with the factual situation, assume liability and abide by the existing laws and regulations.

SRICI Testing Center (seal)