



MSDS Report

Product name : **Diphenyl and diphenylether Heat transfer oil**
M/N : **ENE L-QD400**
Prepared for : **Shenzhen Enesoon Science&Technology Co., Ltd**
Address : 8th Floor, China Academy of Science&Technology Development
Incubator Building, 009#, High-tech South 1st Road, Nanshan District,
Shenzhen City, China
Prepared by : **Shenzhen BCTC Technology Co., Ltd.**
Address : A. Floor 3, 44 Building, Tanglang Industrial Park B, Taoyuan Street,
Nanshan District, Shenzhen, China
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Prepared by : *Little Chen*

Reviewer by : *Sophie Lee*

Approved by : *Casey Wang*





Shenzhen BCTC Technology Co., Ltd.

Report No.: BCTC-13125957

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product name: Diphenyl and diphenylether Heat transfer oil
Company: Shenzhen Enesoon Science&Technology Co., Ltd
Address: 8th Floor, China Academy of Science&Technology Development Incubator Building, 009#, High-tech South 1st Road, Nanshan District, Shenzhen City, China.
Post code: 518000
Email: ene@enesoon.net
Tel: N/A
Fax: N/A
Emergency phone: N/A
MSDS Number: BCTC-13125957
MSDS Date: Dec. 21, 2013

Section 2 – Composition/Information on Ingredient

Product name: Diphenyl and diphenylether Heat transfer oil

Ingredient	Concentration	CAS NO.
Water (H ₂ O)	0.08%	7732-18-5
Biphenyl	25.5~27.5%	92-52-4
Diphenyl oxide	72.5~74.5%	75980-60-8
Chlorine(Cl)	0.0005%	7782-50-5
Sulphur(S)	0.0005%	63705-05-5

Section 3 – Hazards Identification

POTENTIAL HEALTH EFFECTS:

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Prolonged or repeated exposure may cause dermatitis.

Inhalation: Overexposure to vapors or fumes may cause headaches, dizziness, and/or drowsiness.

Ingestion: Harmful if swallowed. May cause vomiting, nausea, diarrhea.

Emergency Overview:

May cause eye and skin irritation. May be harmful if swallowed.



Section 4 – First Aid Measures

Skin Contact:

Promptly wash with soap and water and rinse thoroughly. Remove contaminated clothing and launder before reuse. If irritation persists, consult a physician.

Eye Contact:

Promptly flush with a large amount of water for at least 15 minutes. If irritation persists, consult a physician.

Inhalation:

Remove to fresh air. Restore breathing if necessary. If irritation persists, consult a physician.

Ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a physician immediately.

Section 5 – Fire Fighting Measures

EXTINGUISHING MEDIA:

Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing.

Cool fire-exposed containers with water.

UNUSUAL FIRE/EXPLOSION HAZARDS:

Slightly combustible liquid. If heated above the flashpoint, will release flammable vapors that can present a fire or explosion hazard.

Section 6 – Accidental Release Measures

SPILL RESPONSE:

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.



Section 7 – Handling and Storage

HANDLING:

Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing oil mists. Use with adequate ventilation. Keep away from heat, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children.

STORAGE:

Store away from heat, flames and incompatible materials.

Section 8 – Exposure Controls, Personal Protection

The Following Controls are Recommended for Normal Consumer Use of this Product

Engineering Controls:

Use in a well-ventilated area.

Personal Protection:

Eye Protection:

Avoid eye contact.

Skin Protection:

Avoid prolonged skin contact. Wash hands with soap and water after use.

Respiratory Protection:

None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended

Engineering Controls:

Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Personal Protection:

Eye Protection:

Safety glasses recommended where eye contact is possible.

Skin Protection:

Wear chemical resistant gloves.

Respiratory Protection:

None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear an approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Work/Hygiene Practices:

Wash with soap and water after handling.



Section 9 – Physical and Chemical Properties

Physical State: Liquid

Evaporation Rate: Slower than butyl acetate.

Vapor Density: Greater than 1

Solubility in Water: Insoluble

Specific Gravity: 0.866-0.940

Section 10 – Stability and Reactivity

STABILITY:

Stable

INCOMPATIBILITY:

Strong oxidizing agents. Avoid heat and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide.

Section 11 – Toxicological Information

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria.

None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.

Section 12 – Ecological Information

No data available.

Section 13 – Disposal Considerations

WASTE DISPOSAL METHOD:

If this product becomes a waste, it would not be expected to meet the criteria of a hazardous waste. However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.



Section 14 – Transport Information

The goods are not subject to dangerous goods.

More information concerning shipping, testing, marking and packaging can be obtained from label master at <http://www.labelmaster.com>.

They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping. Prevent collapse of cargo piles and wet by rain.

Transport fashion: By air, by sea, by railway, by road.

Packing Information: Carton

Section 15 – Regulatory Information

Law Information

- 《Dangerous Goods Regulation》
- 《Recommendations on the Transport of Dangerous Goods Model Regulations》
- 《International Maritime Dangerous Goods》
- 《Technical Instructions for the Safe Transport of Dangerous Goods》
- 《Classification and code of dangerous goods》
- 《Occupational Safety and Health Act》 (OSHA)
- 《Toxic Substances Control Act》 (TSCA)
- 《Consumer Product Safety Act》 (CPSA)
- 《Federal Environmental Pollution Control Act》 (FEPCA)
- 《The Oil Pollution Act》 (OPA)
- 《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》 (SARA)
- 《Resource Conservation and Recovery Act》 (RCRA)
- 《Safety Drinking Water Act》 (CWA)
- 《California Proposition 65》
- 《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and Local laws.



Section 16 – Additional Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

***** END OF REPORT *****