



Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
	Non-controlled		Not regulated

Revision Date: 28-Jan-2010

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Daphne Hermetic Oil PR, 6 x 250 ml Case
Product Code: 3420025-049
Recommended use: Refrigerant Oil

Contact Manufacturer
Idemitsu Lubricants America,
701 Port Rd.
Jeffersonville, IN. 47130
Telephone: 812-285-8234
Fax: 812-285-8243
Contact Name: Robin Hutchens
Email: rhutchens@ilacorp.com

Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

May cause irritation to skin, eyes, and Respiratory Tract
Repeated or prolonged exposure may affect the central and peripheral nervous system

Appearance Clear Light Yellow

Physical State: Liquid

Odor: Mild

Potential Health Effects

Principle Routes of Exposure Skin, Eye

Acute Effects

Eyes

Contact with eyes may cause irritation.

Skin

May cause skin irritation and/or dermatitis..

Inhalation

If heated to high temperatures or subjected to mechanical actions which produce vapours or mists, inhalation may cause respiratory tract irritation.

Ingestion

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Avoid repeated exposure. Repeated or prolonged exposure may cause irritation of eyes and skin. TCP inhibits cholinesterase. This product is not expected to produce neurotoxic effects under normal conditions of use and with appropriate personal hygiene practices. This product contains tricresyl phosphate (TCP). Overexposure to TCP by swallowing, prolonged or repeated breathing of oil mist, or prolonged or repeated skin contact may produce nervous system disorders including gastrointestinal disturbances, numbness, muscular cramps, weakness and paralysis .

See Section 11 for additional Toxicological information.

Signs and Symptoms:

Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract

Potential Environmental Effects

See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazardous Components

Chemical Name	CAS-No	Weight %
Tricresylphosphate (TCP)(<1% iso-isomer)	Confidential	5 - 10

Non-Hazardous Components

Chemical Name	CAS-No	Weight %
Synthetic Lubricant	Mixture	80-90

4. FIRST AID MEASURES

General Advice

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.

Ingestion

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Call a physician or Poison Control Center immediately.

Protection of First-aiders

Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Flammable Properties

NFPA: Class IIIB Combustible Liquid

Engineering measures	Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed above is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.
Personal Protective Equipment	
Eye/face Protection	Safety glasses with side-shields.
Skin Protection	Wear protective gloves/clothing. Glove Type: Neoprene, Nitriles
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations
General Hygiene Considerations	When using, do not eat, drink or smoke. Clean equipment, work area and clothing regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Light Yellow
Odor:	Mild
Physical State:	Liquid
Flash Point	> 200°C / 392°F
Method	COC ASTM D92
Density	1.02 g/cm ³ @15°C
Viscosity	@40C = 95.6 cSt; @100C = 19.28 cSt

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions. Hazardous polymerization does not occur.
Conditions to Avoid	Heat, flames and sparks
Incompatible Materials	Strong oxidizing agents
Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapors

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information (Estimated):

LD50 Oral:	42829.89 mg/kg
LD50 Dermal:	666666.67 mg/kg

Hazardous Components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tricresylphosphate (TCP)(<1% iso-isomer)	3 g/kg (Rat)		

Chronic Toxicity**Carcinogenicity:**

There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION**Ecotoxicity****Hazardous Components**

Chemical Name	Freshwater Algae	LC50 Fresh Water Fish	Microtox	Water Flea
Tricresylphosphate (TCP)(<1% iso-isomer)		0.21-0.32 mg/L 3.3-6.2 mg/L 0.1-0.22 mg/L 20.4-41.2 mg/L >3.2-<10 mg/L 4.8-6.4 mg/L		

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION**DOT**

Not regulated

Marine Pollutant

This product contains a chemical which is listed as a marine pollutant according to DOT. The marine pollutant contained in this product is < 10%

IATA

Not regulated

IMDG/IMO

Not regulated

Marine Pollutant

This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO. The marine pollutant contained in this product is < 10%

15. REGULATORY INFORMATION

International Inventories

All components in the product are on the following Inventory Lists: Canada (DSL/NDSL), Korea (ECL), China (IECSC), Philippines (PICCS), U.S.A. (TSCA), Japan (ENCS).

Hazardous Components

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS	NZIoC
Tricresylphosphate (TCP)(<1% iso-isomer)	X	X	-	X	-	X	X	X	X	X	X

USA

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 355.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tricresylphosphate (TCP)(<1% iso-isomer)		X			

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION

Revision Date: 28-Jan-2010

Revision Summary Not available

Disclaimer:

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS