

To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrantee or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States) The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team Zep Inc.



SAFETY DATA SHEET

Revision Date: 23-Sep-2019

This safety data sheet complies with the requirements of: OSHA Hazard Communication Standard (29 CFR 1910.1200)

Product Name: Daphne Hermetic Oil PR, 52.84 Gallon Drum

Product Code: 32450265-94700C020 **Revision Number:** 4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: Daphne Hermetic Oil PR, 52.84 Gallon Drum

Other means of identification

Product Code: 32450265-94700C020

1.2 Recommended use of the chemical and restrictions on use

Recommended Use: Refrigerant Oil

1.3 Details of the supplier of the safety data sheet

Supplied by: Idemitsu Lubricants America Corporation

701 Port Rd., Jeffersonville, IN. 47130

Email: sds@ilacorp.com

Manufactured by: IDEMITSU KOSAN CO., LTD

3-1-1 MARUNOUCHI CHIYODA-KU

TOKYO JAPAN

PHONE: +81-3-3213-3143

24 Hour Emergency Phone Number: Within USA and Canada: 1 800-424-9300

Outside USA and Canada: + 1 703-741-5970

(collect calls accepted)

2. HAZARDS IDENTIFICATION

2.1 Classification

This material is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS 2015.

Skin sensitization	Category 1
Reproductive toxicity	Category 2

2.2 Label elements



Signal word	Warning
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Hazard Statements H317 - May cause an allergic skin reaction

H361 - Suspected of damaging fertility or the unborn child if

swallowed

Precautionary Statements - Prevention P201 - Obtain special instructions before use. P202 - Do not

handle until all safety precautions have been read and understood. P281 - Use personal protective equipment as required. P261 - Avoid breathing dust, fume, gas, mist, vapors, or spray. P272 - Contaminated work clothing should not be allowed

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out of the workplace. P280 - Wear protective gloves.

Precautionary Statements - Response P308 + P313 - IF exposed or concerned: Get medical

advice/attention.

Skin P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before

reuse.

Precautionary Statements - Storage P405 - Store locked up.

Precautionary Statements - Disposal P501 - Dispose of contents/ container to an approved waste

disposal plant.

Hazards not otherwise classified (HNOC)

Not applicable

2.3 Other information

Other hazards May be harmful in contact with skin

Harmful to aquatic life with long lasting effects

Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixture

Hazardous Components

Chemical name	CAS-No	weight-%	US GHS Classification	Notes
Tricresylphosphate	1330-78-5	1-5	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Reproductive 2 (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	
3,4-Epoxycyclohexanecarboxyli c acid (3,4-epoxycyclohexylmethyl) ester	2386-87-0	<1	Skin Sens. 1 (H317)	

4. FIRST AID MEASURES

4.1 First Aid Measures

General Advice If symptoms persist, call a physician. Take a copy of the Safety Data Sheet when going for

medical treatment.

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 eye irritation persists: Get medical advice or attention. IF exposed or concerned: Get medical advice.

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Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before re-use. Call a physician

immediately.

Inhalation In case of inadequate ventilation wear respiratory protection. If breathing difficulties

develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. If unconscious place in recovery position and seek medical advice. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a

physician immediately.

Ingestion Do not induce vomiting without medical advice. If vomiting occurs naturally, have casualty

lean forward to reduce the risk of aspiration. Rinse mouth. Never give anything by mouth to

an unconscious person. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms See Section 11 for additional Toxicological information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties NFPA: Class IIIB Combustible Liquid

5.1 Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Specific Hazards Arising from the Chemical Keep product and empty container away from heat and sources

of ignition.

Hazardous combustion products

During a fire, smoke may contain the original material in addition

to combustion products of varying composition which may be toxic and / or irritating. Combustion products may include and

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are not limited to: Carbon oxides Oxides of Phosphorus

Sensitivity to mechanical impact: No data available.

5.3 Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal

protection recommended in Section 8. Ensure adequate ventilation. Remove all sources of

ignition.

6.2. Environmental precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the

ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Do not flush into surface water or sanitary sewer system. Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Methods for Clean-up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceus earth, vermiculite) and place in container for disposal according to local /

national regulations (see section 13).

Spill Management

LARGE SPILLS Eliminate sources of ignition. Prevent additional discharge of material if possible to do so

without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 Regulatory Information) notify

the National Response Center.

WATER SPILLS Prevent liquid entering sewers, watercourses, or low areas. Contain spilled liquid with sand

or earth. Recover by pumping or with suitable absorbent. If liquid is too viscous for pumping, scrape up. Consult an expert on disposal of recovered material and ensure

conformity to local disposal regulations.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling Obtain special instructions before use. Do not handle until all

safety precautions have been read and understood. Do not breathe dusts or mists. Avoid contact with eyes, skin and clothing. Wear protective gloves, protective clothing, eye protection, and face protection. Use personal protection recommended in the SDS. Wash hands thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

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Should not be released into the environment.

Safe Handling Advice Handle in accordance with good industrial hygiene and safety

practices. Take precautionary measures against static

discharges.

7.2. Conditions for safe storage, including any incompatibilities

Storage Keep in properly labeled containers. Keep container tightly closed

in a dry and well-ventilated place.

Technical measures/Precautions Ensure adequate ventilation.

Incompatible Materials and/or Coatings

No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Exposure GuidelinesThis product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

8.2 Exposure controls

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 below 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 equipped with side shields are recommended as minimum protection in

industrial settings. If splashes are likely to occur wear tight fitting safety goggles and/or

face-shield.

Skin protection Wear protective gloves/clothing. Long sleeved clothing. Choose the appropriate protective

clothing and gloves based on the tasks being performed to avoid exposed skin surfaces.

Glove Type: Neoprene, Nitriles

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

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regulations.

General Hygiene Considerations When using, do not eat, drink or smoke. Remove and wash contaminated clothing before

re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Clear Light Yellow

Physical state Liquid

Odor Characteristic

Odor Threshold No information available

pH Not applicableMelting point / melting rangeNot applicable

Boiling point / boiling range No information available

Flash Point 244 °C / 471 °F COC ASTM D92

Evaporation Rate

Flammability Limit in Air

Explosion Limits

Vapor pressure @20 °C (kPa)

No information available
No information available
No information available
No information available

Vapor pressure @20 C (RPa)No information availableVapor densityNo information availableDensity1.02 g/cm³ @15°CSolubility(ies)No information availablePartition coefficientNo information availableAutoignition TemperatureNo information availableDecomposing TemperatureNo information available

Kinematic viscosity @40C = 100.1 cSt; @100C = 20.01 cSt

9.2. Other information

No additional information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity The product is chemically stable.

10.2. Chemical stability

Chemical Stability Stable under normal conditions.

10.3 Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

10.4 Conditions to avoid

Conditions to Avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible Materials Strong oxidizing agents, Strong acids

10.6. Hazardous decomposition products

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and

vapors.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation May cause respiratory irritation.

Eye contact May cause slight irritation.

Skin Contact May cause an allergic skin reaction.

Ingestion May be harmful if swallowed.

11.2 Information on toxicological effects

Symptoms No information available

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Not classified.

Serious eye damage/eye

irritation

Not classified.

Sensitization May cause an allergic skin reaction.

Mutagenic effects Not classified.

Reproductive Toxicity Suspected of damaging fertility or the unborn child if swallowed

Developmental Effects Testes Exposure route Oral

STOT - single exposure Not classified.

STOT - repeated exposure Not classified

Aspiration hazard Not classified.

11.4 Carcinogenicity

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as

a known or anticipated carcinogen by NTP, IARC, OSHA or ACGIH.

Legend: NTP (National Toxicology Program), IARC (International Agency for Research on Cancer),

OSHA (Occupational Safety and Health Administration of the US Department of Labor),

ACGIH (American Conference of Governmental Industrial Hygienists)

11.5 Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

Product Information (Estimated):

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Tricresylphosphate 1330-78-5	> 20000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	No Data
3,4-Epoxycyclohexanecarboxyli	= 4490 mg/kg (Rat)	20 mL/kg (Rabbit)	-

c acid	= 5000 mg/kg (Rat)	
(3,4-epoxycyclohexylmethyl)		
ester		
2386-87-0		

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Ecotoxicity effects

Harmful to aquatic life. Harmful to aquatic life with long lasting effects. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

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12.2 Persistence and degradability No information available.

12.3 Bioaccumulation/Accumulation No information available.

12.4 Mobility in Environmental Media No information available.

12.5 Other adverse effects:

PBT and vPvB assessment No information available

13. DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

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

<u>DOT</u> Not regulated

<u>DOT - Bulk</u> Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

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International Inventories

TSCA	All ingredients are on the inventory or exempt from listing		
DSL	All ingredients are on the inventory or exempt from listing		
EINECS	All ingredients are on the inventory or exempt from listing		
ENCS	All ingredients are on the inventory or exempt from listing		
IECSC	All ingredients are on the inventory or exempt from listing		
KECL	All ingredients are on the inventory or exempt from listing		
PICCS	All ingredients are on the inventory or exempt from listing		
AICS	All ingredients are on the inventory or exempt from listing		
REACH	All ingredients are on the inventory or exempt from listing		

Federal	Regulations
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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 hazardSkin Sensitizer, Reproductive ToxicityChronic Health HazardSkin Sensitizer, Reproductive Toxicity

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.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

State	Regulations	

California Proposition 65

Label: This product does not contain any Proposition 65 chemicals

State Right-to-Know

Chemical name	CAS-No	weight-%	New Jersey
Tricresylphosphate	1330-78-5	1-5	X

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New Jersey Worker and Community Right-to-Know Act:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Lubricating Oil)

Canada

This material has been classified in accordance with the WHMIS 2015 regulation

Chemical name	CAS-No	weight-%	NPRI
2,6-di-tert-butyl p-cresol	128-37-0	<1	Listed
Isopropyl alcohol	67-63-0	<0.00001	Listed

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION



NFPA Health hazards: 2 Flammability: 1 Instability: 0

Prepared By: Aaron Keck

Revision Date: 23-Sep-2019

Revision Summary: Review

Disclaimer:

The information provided on this SDS 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 Safety Data Sheet