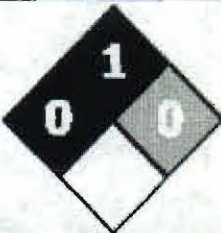





Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
	Non-controlled		Not regulated

Revision Date: 08-Apr-2009

Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Toyota ND8 Compressor Oil, 90x40ml Case
Product Code: 3419025-084
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@llacorp.com

Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

CAUTION!

Emergency Overview

May cause eye/skin irritation
May cause irritation of respiratory tract

Appearance: Clear Oily Liquid

Physical State: Liquid

Odor: Mild

Potential Health Effects

Principle Routes of Exposure

Skin, Eye, Inhalation.

Acute Effects

Eyes

May cause eye irritation.

Skin

May cause skin irritation and/or dermatitis.

Inhalation

May cause irritation of respiratory tract.

Ingestion

May be harmful if swallowed.

Chronic Effects

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

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Hazardous Components

Chemical Name	CAS-No	Weight %
Tricresyl Phosphate (TCP)(<1% ortho isomers)	Confidential	1 - 5

Non-Hazardous Components

Chemical Name	CAS-No	Weight %
Synthetic Lubricant	Mixture	>94

4. FIRST AID MEASURES

General Advice

Do not breathe dust/fume/gas/mist/vapours/spray. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Skin Contact

Wash off immediately with soap and plenty of water 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 vapors. If symptoms persist, call a physician.

Ingestion

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. 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

Suitable Extinguishing Media

Water, Water spray, Carbon dioxide (CO₂), Dry powder, Foam.

Hazardous Combustion Products

Carbon oxides (COx). Phosphorus compounds (POx).

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition

Protective Equipment and Precautions for Firefighters

Use personal protective equipment.

NFPA

Health:

0

Flammability: 1

Instability:

0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid breathing vapors or mists. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental Precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods for Containment

Prevent spreading over a wide area (e.g. by containment or oil barriers). Soak up with oil absorbent material.

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

Handling

Wear personal protective equipment. Keep away from heat, sparks and open flame; No smoking. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing.

Storage

This material is hygroscopic. Store in tightly sealed containers to protect from atmospheric moisture. Keep in properly labeled containers.

Safe Handling Advice

Handle in accordance with good industrial hygiene and safety practices

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering measures

Provide adequate ventilation during application.

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

Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Oily Liquid
Odor: Mild
Physical State: Liquid
Flash Point 200°C / 392°F
Method COC ASTM D92
Boiling Point/Range 180°C / 356°F

Vapor Density (Air) > 1.0
Viscosity @40C= 40.72 cSt; @100C =9.077 cSt

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions
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

LD50 Oral: 157904.69 mg/kg
LD50 Dermal: 200100.01 mg/kg

Hazardous Components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tricresyl Phosphate (TCP)(<1% ortho isomers)	3 g/kg (Rat)		

Chronic Toxicity

Carcinogenicity:
There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental hazard assessment.

Hazardous Components

Chemical Name	Freshwater Algae	LC50 Fresh Water Fish	Microtox	Water Flea
Tricresyl Phosphate (TCP)(<1% ortho isomers)		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

IATA

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

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

Hazardous Components

Chemical Name	TSCA	DSL	NDL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS	NZIoC
Tricresyl Phosphate (TCP)(<1% ortho isomers)	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	No
Chronic Health Hazard	No
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

This product does not contain any substances regulated by state right-to-know regulations.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tricresyl Phosphate (TCP)(<1% ortho isomers)		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: 08-Apr-2009

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