




Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
	Non-controlled	 	Not regulated

Revision Date: 01-Jun-2012

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: AC Delco A/C Compressor Oil Canadian Labeled, 6 x 8oz Cart.
Product Code: 3421025-062
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

CAUTION!

Emergency Overview

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

Appearance Clear Oily Liquid

Physical State: Liquid

Odor: Mild

Mexico - Grade Slight risk, Grade 1

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.

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.

Chemical Name	CAS-No	Weight %
Tricresyl Phosphate (TCP)(<1% ortho isomers)	Confidential	1 - 5
Lipophilic Organic Compound	Confidential	0.1 - 1

Non-Hazardous Components

Chemical Name	CAS-No	Weight %
Synthetic Lubricant	Mixture	>95

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 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 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, 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:

1

Flammability:

1

Instability:

0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with the skin and the eyes. Use personal protective equipment. Remove all sources of ignition. Avoid breathing vapors or mists. Ensure adequate ventilation.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

Methods for Clean-up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Pick up and transfer to properly labeled containers.

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

Hazardous Components

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico	NIOSH IDLH	ILA Internal Exposure Limit
Lipophilic Organic Compound	TWA: 2 mg/m ³		TWA: 2 mg/m ³	STEL: 20 mg/m ³ TWA: 10 mg/m ³		

Other Exposure Guidelines (If Generated)

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 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.

Skin Protection

Wear protective gloves/clothing. Use clean protective clothing if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. **Glove Type:** Neoprene. nitrile rubber. Nitriles. butyl-rubber.

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 Oily Liquid
Odor:	Mild
Physical State:	Liquid
Flash Point	200°C / 392°F
Method	COC ASTM D92
Water Solubility	Insoluble
Density	1.0 g/cm ³ @15°C
Viscosity	@40C = 45.5 cSt; @100C = 9.948 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

Product Information (Estimated):

LD50 Oral: 94179.87 mg/kg

Hazardous Components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tricresyl Phosphate (TCP)(<1% ortho isomers)	3 mg/kg (Rat)		
Lipophilic Organic Compound	890 mg/kg (Rat)		

Chronic Toxicity

Carcinogenicity:

The table below indicates whether each agency has listed any ingredient as a carcinogen

Hazardous Components

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
Lipophilic Organic Compound		Group 3			A4 - Not classifiable as a human carcinogen

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Hazardous Components

Chemical Name	Freshwater Algae	LC50 Fresh Water Fish	Microtox	Water Flea
Tricresyl Phosphate (TCP)(<1% ortho isomers)		96 h		
Lipophilic Organic Compound	EC50 = 6 mg/L 72 h EC50 > 0.42 mg/L 72 h	48 h	EC50 = 7.82 mg/L 5 min EC50 = 8.57 mg/L 15 min EC50 = 8.98 mg/L 30 min	

Hazardous Components

Chemical Name	EC50/48h/daphnia =	log Pow
Lipophilic Organic Compound		4.17

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

DOT

Not regulated

The marine pollutant contained in this product is < 10%

IATA

Not regulated

IMDG/IMO

Not regulated

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: U.S.A. (TSCA), Canada (DSL/NDSL), Australia (AICS), Korea (ECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

Hazardous Components

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS	NZIoC
Tricresyl Phosphate (TCP)(<1% ortho isomers)	X	X	-	X	-	X	X	X	X	X	X
Lipophilic Organic Compound	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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tricresyl Phosphate (TCP)(<1% ortho isomers)		X			

Predominant Ingredients - NJRTK

Chemical Name	CAS-No
TSRN# 80100393-5006P	Confidential
TSRN# 80100393-5003P	Confidential
TSRN# 80100393-5005P	Confidential

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

Prepared By Robin Hutchens
Revision Date: 01-Jun-2012
Revision Summary: Corrected Viscosity Data.

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 Safety Data Sheet