



CITY OF GARDEN GROVE
FIRE DEPARTMENT

February 12, 2019

Lyla Gray-Etherson
Property Solutions

Re: 9444 and 9670 Trask Ave., Garden Grove CA

Dear Lyla Gray-Etherson,

Enclosed are the records found concerning the history of the above-mentioned site(s), especially as it pertains to fire code violation history, permits, the use, storage, or disposal of hazardous substances, and the installation or removal of underground flammable or combustible liquid storage tanks.

The City of Garden Grove Fire Department has utilized its best efforts to locate the records requested. However, the City makes no representation as to the accuracy of the records or that all records requested were retained or located. The City does not provide records on spills, leaks and clean-up, as that information is provided through the County of Orange Health Department.

Sincerely,


Paul Whittaker

Division Chief of Administration

**Violation List for
TOYOTA PLACE OF GARDEN GROVE
9670 TRASK Ave**

Date Issued	Date Cleared	Code #	Violation Description
06/16/2014	07/07/2014	CFC 901.6	Service and tag Fire Extinguishers.
06/16/2014	07/07/2014	CFC 1011.2	Provide illuminated exit sign(s).
06/16/2014	07/07/2014	CFC 906.1	Provide extinguisher(s)
01/25/2012	02/01/2012		Replace ceiling tile in 2nd floor conference room
01/25/2012	02/01/2012		Place chain around air cylinders in riser room
01/25/2012	02/01/2012	CFC 3003.5.1	Secure compressed gas cylinders.
01/25/2012	02/01/2012	CFC 2701.5.1	Complete Haz Mat Disclosure packet
10/28/2009	11/18/2009	CFC 901.6	Service and tag Fire Extinguishers.



CITY OF GARDEN GROVE FIRE DEPARTMENT

11301 Acacia Parkway, Garden Grove, CA 92842 (714) 741-5600 (714) 741-5636

FORM 1

Hazardous Materials Business Information Form

Page of 3

BUSINESS INFORMATION

FACILITY # (Supplied by GGFD)	3 0 0 3 5	BEGINNING DATE	1	ENDING DATE	2
BUSINESS NAME	TOYOTA PLACE		4	BUSINESS PHONE	5
BUSINESS SITE ADDRESS	9670 TRASK AVE				6
CITY	GARDEN GROVE	STATE	7	CA	8
DUN & BRADSTREET	10	SIC CODE (4 DIGIT #)	11	FIRE DISTRICT	12
COUNTY	ORANGE				13
BUSINESS OPERATOR NAME	PAT PETTY	OPERATOR'S PHONE	14		15

BUSINESS OWNER

OWNER NAME	NOARUS AUTOGROUP	OWNER PHONE	16		17
OWNER MAILING ADDRESS	SAME				18
CITY		STATE	19	CA	20
		ZIP		92844	21

ENVIRONMENTAL CONTACT

CONTACT NAME	PAT PETTY	CONTACT PHONE	22		23
CONTACT MAILING ADDRESS	SAME				24
CITY		STATE	25		26
		ZIP			27

PRIMARY

EMERGENCY CONTACTS

SECONDARY

NAME	PAT PETTY	NAME	BRUCE GRANSE
TITLE	SERVICE DIRECTOR	TITLE	PARTS MANAGER
BUSINESS PHONE	714-895-5595	BUSINESS PHONE	714-895-5595
24-HR. PHONE	[REDACTED]	24-HR. PHONE	[REDACTED]
PAGER #		PAGER #	

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION:	AUTO DEALERSHIP	TOTAL # OF EMPLOYEES	38		39
BILLING ADDRESS (IF DIFFERENT FROM ABOVE)		ATTENTION	40		41
PROPERTY OWNER NAME	42	ADDRESS	43	PHONE	44

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	45	DATE	4-14-2008	46
NAME OF SIGNER (print)	47	NAME OF DOCUMENT PREPARER (print)		49
TITLE OF SIGNER	48	TITLE OF DOCUMENT PREPARER		50



CITY OF GARDEN GROVE FIRE DEPARTMENT

11301 Acacia Parkway, Garden Grove, CA 92842 (714) 741-5600 (714) 741-5636

FORM 1

Hazardous Materials Business Information Form

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BUSINESS INFORMATION

FACILITY # 3 0 0 3 5										BEGINNING DATE 1		ENDING DATE 2	
BUSINESS NAME 4										BUSINESS PHONE 5			
BUSINESS SITE ADDRESS 6													
CITY GARDEN GROVE 7							STATE CA 8	ZIP 9					
DUN & BRADSTREET 10					SIC CODE (4 DIGIT #) 11		FIRE DISTRICT 12						
COUNTY ORANGE 13													
BUSINESS OPERATOR NAME 14							OPERATOR'S PHONE 15						

BUSINESS OWNER

OWNER NAME 16										OWNER PHONE 17	
OWNER MAILING ADDRESS 18											
CITY 19							STATE 20	ZIP 21			

ENVIRONMENTAL CONTACT

CONTACT NAME 22										CONTACT PHONE 23	
CONTACT MAILING ADDRESS 24											
CITY 25							STATE 26	ZIP 27			

PRIMARY EMERGENCY CONTACTS SECONDARY

PRIMARY		EMERGENCY CONTACTS		SECONDARY	
NAME 28		NAME 33			
TITLE 29		TITLE 34			
BUSINESS PHONE 30		BUSINESS PHONE 35			
24-HR. PHONE 31		24-HR. PHONE 36			
PAGER # 32		PAGER # 37			

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION: 33										TOTAL # OF EMPLOYEES 39	
BILLING ADDRESS (IF DIFFERENT FROM ABOVE) 40										ATTENTION 41	
PROPERTY OWNER NAME 42					ADDRESS 43			PHONE 44			

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE 45										DATE 8-31-2011 46	
NAME OF SIGNER (print) Pat Petty 47					NAME OF DOCUMENT PREPARER (print) Pat Petty 49						
TITLE OF SIGNER SERVICE Director 48					TITLE OF DOCUMENT PREPARER SERVICE Director 50						



CITY OF GARDEN GROVE
11301 ACACIA PARKWAY
GARDEN GROVE, CALIFORNIA 92842
(714) 741-5636

CUPA

FACILITY INFORMATION

BUSINESS ACTIVITIES

Page 1 of 1

I. FACILITY IDENTIFICATION

FACILITY ID#	3	0	0	3	5													1. EPA ID # (Hazardous Waste Only)	2.
BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As)																			3.

TOYOTA PLACE

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page

Does your facility...	If Yes, please complete these pages of the UPCF...	
A. HAZARDOUS MATERIALS Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	4. <input checked="" type="checkbox"/> HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (Form 3)
B. UNDERGROUND STORAGE TANKS (USTs) 1. Own or operate underground storage tanks? 2. Intent to upgrade existing or install new USTs? 3. Need to report closing a UST?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	5. <input checked="" type="checkbox"/> UST FACILITY (Formerly SWRCB Form A) <input checked="" type="checkbox"/> UST TANK (one page per tank) (Formerly Form B) 6. <input checked="" type="checkbox"/> UST FACILITY <input checked="" type="checkbox"/> UST TANK (one per tank) <input checked="" type="checkbox"/> UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C) 7. <input checked="" type="checkbox"/> UST TANK (closure portion-one page per tank)
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs) Own or operate ASTs above these thresholds: - any tank capacity is greater than 660 gallons, or - the total aggregate capacity for the entire facility (ASTs, drums and portable containers) greater than 1,320 gallons?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	8. <input checked="" type="checkbox"/> NO FORM REQUIRED TO CUPAS
D. HAZARDOUS WASTE 1. Generate hazardous waste? 2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)? 3. Treat hazardous waste on site? 4. Treatment subject to financial assurance requirements (for Permit by Rule and Condition Authorization)? 5. Consolidate hazardous waste generated at a remove site? 6. Need to report the closure/removal of a tank that was classified waste and cleaned onsite?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	9. <input checked="" type="checkbox"/> EPA ID NUMBER - provide at the top of this page 10. <input checked="" type="checkbox"/> RECYCLABLE MATERIALS REPORT (one per recycler) 11. <input checked="" type="checkbox"/> ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772) <input checked="" type="checkbox"/> ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772A,B,C,D and L) 12. <input checked="" type="checkbox"/> CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232) 13. <input checked="" type="checkbox"/> REMOTE WASTE/CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196) 14. <input checked="" type="checkbox"/> HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)
E. LOCAL REQUIREMENTS Cal-ARP: California Accidental Release Prevention Program H&SC Chapter 6.95, Article 2, §25531 et seq — Stationary Source with more than a Threshold Quantity of a Regulated Substance in a Process	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	15. <input checked="" type="checkbox"/> REGULATED SUBSTANCE REPORTING FORM (Orange County CUPA)

California Hazardous Materials Inventory Reporting Form-Chemical Description Page

(1) [] ADD [] DELETE [X] REVISE

PAGE (2) **5** OF (3) **6**

BUSINESS NAME (4) **Toyota Place**

CHEMICAL LOCATION (5) **Parts Department**

MAP # (6) **1**

GRID # (7) **F9, G9**

CHEMICAL NAME (8) **Ethylene Glycol** TRADE SECRET (11) Y N

COMMON NAME (9) **Antifreeze - Coolant** EHS (12) Y N

CAS (13) **Mixture** IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS

FIRE CODE HAZARD CLASSES* (13) **HC: CL DOT: UN1993**

*COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF-REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS μCURIES

HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) **216**

DAYS ON SITE (20) **365** If EHS amounts must be in lb. AVG DAILY AMT (24) **125**

LARGEST CONTAINER (21) **1** ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE PLASTIC BOTTLE
 STEEL DRUM FIBER DRUM TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1 94	Ethylene Glycol	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	107-21-1
2 2	Phosphates	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	7758-11-4
3 4	Proprietary Additives	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Mixture
4		<input type="checkbox"/> Y <input type="checkbox"/> N	
5		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

- (a) IS THIS MATERIAL OR ANY OF ITS COMPONENTS A CARCINOGEN? Y N (REFER TO ATTACHMENT B)
- (b) IS THIS MATERIAL PREPACKAGED FOR RETAIL SALE? Y N
- (c) IS THIS MATERIAL A COMMERCIAL GRADE PESTICIDE? Y N
- (d) IF THIS MATERIAL IS RADIOACTIVE, WHAT TYPE OF EMITTER IS IT? ALPHA BETA GAMMA
- (e) HOW IS THE MATERIAL DISPOSED OF? (Refer to Table #2, page 19 of the green pages)
- (f) IS A WASTE PRODUCED OR LEFT OVER AFTER PROCESSING? Y N
- (g) HOW IS THE MATERIAL USED/WHAT IS THE MATERIAL USED FOR? **Coolant in Autos**

FOR OFFICE USE ONLY	<input type="checkbox"/> UNDER	CARC EXP	<input type="checkbox"/> 1
	<input type="checkbox"/> COMB	RAD HTX	<input type="checkbox"/> 2
	<input type="checkbox"/> EXEMPT	CGP RS	<input type="checkbox"/> 3

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: TOYOTA LONG LIFE ANTIFREEZE/COOLANT
Product Description: Glycol
Product Code: 848903-00, 97D061
Intended Use: Antifreeze/coolant

COMPANY IDENTIFICATION

Supplier: EXXON MOBIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA. 22037 USA

24 Hour Health Emergency 609-737-4411
Transportation Emergency Phone 800-424-9300
ExxonMobil Transportation No. 281-834-3296
MSDS Requests 713-613-3661
Product Technical Information 800-662-4525, 800-947-9147
MSDS Internet Address <http://www.exxon.com>, <http://www.mobil.com>

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Hazardous Substance(s) or Complex Substance(s)

Name	CAS#	Concentration*
ETHANOL, 2,2-OXYBIS-	111-46-6	1 - 5%
ETHYLENE GLYCOL	107-21-1	> 90 %
HYDRATED INORGANIC ACID, SODIUM SALT		1 - 5%

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

SECTION 3 HAZARDS IDENTIFICATION

This material is considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL HEALTH EFFECTS

Harmful if swallowed. May cause harm to the unborn child. Ingestion of ethylene glycol may result in nausea, vomiting, abdominal cramps, blindness, liver damage, irritation, reproductive effects, nerve damage, convulsions, edema of the lung, cardiopulmonary effects (metabolic acidosis), pneumonia and kidney failure which could result in death. The single lethal dose for humans is about 100 ml. Inhalation of high levels of vapors or mists for prolonged periods of time may also result in toxic effects. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

Product Name: TOYOTA LONG LIFE ANTIFREEZE/COOLANT

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Target Organs: Kidney | Reproductive system |

NFPA Hazard ID:	Health: 1	Flammability: 1	Reactivity: 0
HMIS Hazard ID:	Health: 2*	Flammability: 1	Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

Seek immediate medical attention.

NOTE TO PHYSICIAN

This product contains ethylene and/or diethylene glycol which, if ingested, is metabolized to toxic metabolites by the enzyme alcohol dehydrogenase, for which ethanol and 4-methylpyrazole (U.S. drug name Fomepizole, trade name Antizol) are antagonists. Administration of oral or intravenous ethanol or intravenous 4-methylpyrazole may arrest further metabolism of this material and thereby ameliorate the toxicity. Use of ethanol or 4-methylpyrazole does not affect toxic metabolites that are already present and is not a substitute for hemodialysis.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water or Regular Foam

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FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

Hazardous Combustion Products: Oxides of carbon, Incomplete combustion products, Aldehydes, Smoke, Fume

FLAMMABILITY PROPERTIES

Flash Point [Method]: 120C (248F) [ASTM D-92]

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

Autoignition Temperature: N/D

SECTION 6

ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for fire fighting information. See Section 3 for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for Personal Protective Equipment.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Do not touch or walk through spilled material.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Consult an expert. Material will sink. This product emulsifies, disperses or is miscible in water. Remove material, as much as possible, using mechanical equipment.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Remove debris in path of spill and remove contaminated debris from shoreline and water surface and dispose of according to local regulations. **Large Spills:** Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

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SECTION 7	HANDLING AND STORAGE
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HANDLING

Avoid breathing mists or vapors. Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is not a static accumulator.

STORAGE

Do not store in open or unlabelled containers.

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Source	Form	Limit / Standard	Note	Source
ETHANOL, 2,2-OXYBIS-		TWA 10 mg/m3	N/A	AIHA WEEL
ETHYLENE GLYCOL	Aerosol.	Ceiling 100 mg/m3	N/A	ACGIH

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No protection is ordinarily required under normal conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen

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levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly effect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid

Color: Pale Yellow

Odor: Characteristic

Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density: 1.14

Flash Point [Method]: 120C (248F) [ASTM D-92]

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

Autoignition Temperature: N/D

Boiling Point / Range: 149C (300F)

Vapor Density (Air = 1): N/D

Vapor Pressure: [N/D at 20 °C]

Evaporation Rate (n-butyl acetate = 1): N/D

pH: 8

Log Pow (n-Octanol/Water Partition Coefficient): N/D

Solubility in Water: Complete

Viscosity: [N/D at 40 °C]

Oxidizing Properties: See Sections 3, 15, 16.

OTHER INFORMATION

Freezing Point: N/D

Melting Point: N/A

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SECTION 10	STABILITY AND REACTIVITY
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STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong Acids, Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11	TOXICOLOGICAL INFORMATION
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ACUTE TOXICITY

<u>Route of Exposure</u>	<u>Conclusion / Remarks</u>
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m3	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: Data available.	Negligible hazard at ambient/normal handling temperatures. Based on test data for structurally similar materials.
Ingestion	
Toxicity (Human): LDLo 100 ml	Moderately toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

CHRONIC/OTHER EFFECTS

Contains:

ETHYLENE GLYCOL (EG): Repeated high oral exposure has caused kidney damage, neurological effects, degeneration of the liver and changes in blood chemistry and circulating blood cells in laboratory animals. Repeated overexposure has the potential to cause similar toxic effects in humans. EG causes developmental and reproductive effects at high dose levels in laboratory animals. The relevance of these findings to humans is uncertain.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC

3 = IARC 1

5 = IARC 2B

2 = NTP SUS

4 = IARC 2A

6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Material -- Expected to remain in water or migrate through soil.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Material -- Expected to be readily biodegradable.

Atmospheric Oxidation:

Material -- Expected to degrade rapidly in air

BIOACCUMULATION POTENTIAL

Material -- Potential to bioaccumulate is low.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Even though this product is biodegradable, it must not be indiscriminately discarded into the environment. Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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SECTION 14	TRANSPORT INFORMATION
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LAND (DOT)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (ETHYLENE GLYCOL)

Hazard Class & Division: 9

ID Number: 3082

Packing Group: III

Product RQ: 5555.56 lbs - ETHYLENE GLYCOL

ERG Number: 171

Label(s): 9

Transport Document Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S., 9, UN3082, PG III, RQ (ETHYLENE GLYCOL)

LAND (TDG) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

SECTION 15	REGULATORY INFORMATION
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OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: TSCA

EPCRA: This material contains no extremely hazardous substances.

CERCLA:

Chemical Name	CAS Number	Typical Value	Component RQ	Product RQ
ETHYLENE GLYCOL	107-21-1	> 90 %	5000 lbs	5555.56 lbs

SARA (311/312) REPORTABLE HAZARD CATEGORIES: Immediate Health. Delayed Health.

SARA (313) TOXIC RELEASE INVENTORY:

Chemical Name	CAS Number	Typical Value
ETHYLENE GLYCOL	107-21-1	> 90 %

The Following Ingredients are Cited on the Lists Below:

Chemical Name	CAS Number	List Citations
ETHANOL, 2,2-OXYBIS-	111-46-6	16, 18, 19
ETHYLENE GLYCOL	107-21-1	1, 13, 16, 17, 18, 19

Product Name: TOYOTA LONG LIFE ANTIFREEZE/COOLANT

Revision Date: 18Oct2006

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--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16	OTHER INFORMATION
------------	-------------------

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

No revision information is available.

PRECAUTIONARY LABEL TEXT:

Contains: ETHYLENE GLYCOL

DANGER!

HEALTH HAZARDS

Harmful if swallowed. May cause harm to the unborn child.

Target Organs: Kidney | Reproductive system |

FIRST AID

Inhalation: Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Eye: Flush thoroughly with water. If irritation occurs, get medical assistance.

Oral: Seek immediate medical attention. Seek medical attention.

Skin: Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

FIRE FIGHTING MEDIA

Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

SPILL/LEAK

Land Spill: Stop leak if you can do it without risk. **Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Recover by pumping or with suitable absorbent. Do not touch or walk through spilled material.

Water Spill: Stop leak if you can do it without risk. Report spills as required to appropriate authorities. Material will sink. This product emulsifies, disperses or is miscible in water. Consult an expert.



Product Name: TOYOTA LONG LIFE ANTIFREEZE/COOLANT
Revision Date: 18Oct2006
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MHC: 3, 0, 0, 0, 0, 0

PPEC: C

DGN: 2015012XUS (558173)

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California Hazardous Materials Inventory Reporting Form-Chemical Description Page

(1) [] ADD [] DELETE [X] REVISE

PAGE (2) **3** OF (3) **6**

BUSINESS NAME (4) **Toyota Place**
 CHEMICAL LOCATION (5) **Service Department**
 MAP # (6) **1** GRID # (7) **G8,H8**

CHEMICAL NAME (8) **Waste Lubricating Oils** TRADE SECRET (11) Y N
 COMMON NAME (9) **Waste Oil** EHS (12) Y N
 CAS (13) **Mixture** IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS
 FIRE CODE HAZARD CLASSES* (13) **HC: CL DOT: UN 1270**

*COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF-REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)
 PHYSICAL STATE (17) SOLID LIQUID GAS μCURIES

HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH
 STATE WASTE CODE (19) **0221** UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) **700**

DAYS ON SITE (20) **365** If EHS amounts must be in lb. AVG DAILY AMT (24) **300**

LARGEST CONTAINER (21) **700** ANNUAL WASTE AMT (25) **20,000**

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1 90	Parafinic Petroleum Distillates	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	64742-6650
2 10	Waste and Dirt	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
3		<input type="checkbox"/> Y <input type="checkbox"/> N	
4		<input type="checkbox"/> Y <input type="checkbox"/> N	
5		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) **ADDITIONAL LOCALLY COLLECTED INFORMATION**

- (a) IS THIS MATERIAL OR ANY OF ITS COMPONENTS A CARCINOGEN? Y N (REFER TO ATTACHMENT B)
 (b) IS THIS MATERIAL PREPACKAGED FOR RETAIL SALE? Y N
 (c) IS THIS MATERIAL A COMMERCIAL GRADE PESTICIDE? Y N
 (d) IF THIS MATERIAL IS RADIOACTIVE, WHAT TYPE OF EMITTER IS IT? ALPHA BETA GAMMA
 (e) HOW IS THE MATERIAL DISPOSED OF? (Refer to Table #2, page 19 of the green pages) 02
 (f) IS A WASTE PRODUCED OR LEFT OVER AFTER PROCESSING? Y N
 (g) HOW IS THE MATERIAL USED/WHAT IS THE MATERIAL USED FOR? From Auto Engines

FOR OFFICE USE ONLY	<input type="checkbox"/> UNDER	CARC EXP	<input type="checkbox"/> 1
	<input type="checkbox"/> COMB	RAD HTX	<input type="checkbox"/> 2
	<input type="checkbox"/> EXEMPT	CGP RS	<input type="checkbox"/> 3

471664-00 TOYOTA GENUINE MOTOR OIL 5W-30
Part Number 00279-1QT5W

MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TOYOTA GENUINE MOTOR OIL 5W-30
SUPPLIER: EXXONMOBIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037

24 - Hour Health and Safety Emergency (call collect): 609-737-4411
24 - Hour Transportation Emergency (Primary) CHEMTREC: 800-424-9300
(Secondary) 281-834-3296

Product and Technical Information:
Lubricants and Specialties: 800-662-4525 800-443-9966
Fuels Products: 800-947-9147
MSDS Fax on Demand: 613-228-1467
MSDS Internet Website: <http://emmsds.ihssolutions.com/>

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: SEVERE TREAT MIN. OILS & ADDITIVES

GLOBALLY REPORTABLE MSDS INGREDIENTS:

Substance Name	Approx. Wt%
ALKYLATED PHENOL	1-5
PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALT (2:1) ZDDP (68649-42-3)	1-5

See section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines (See section 15).

EMERGENCY OVERVIEW: Amber Liquid. DOT ERG No. : NA

POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.

For further health effects/toxicological data, see Section 11.

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. (See Section 16 - Injection Injury)

INHALATION: Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation.

INGESTION: Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): > 200(392) (ASTM D-92).

Flammable Limits (approx.% vol.in air) - LEL: 0.9%, UEL: 7.0%

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free number (800)424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.

SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m³ (as oil mist)- ACGIH Threshold Limit Value (TLV), 10 mg/m³ (as oil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m³ (as oil mist) - OSHA Permissible Exposure Limit (PEL)

VENTILATION: If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.

RESPIRATORY PROTECTION: If mists are generated, and/or when ventilation is not adequate, wear approved respirator.

EYE PROTECTION: If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.

SKIN PROTECTION: Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should always be followed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Amber

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): > 200(392) (ASTM D-92)

FLAMMABILITY (solids): NE

AUTO FLAMMABILITY C(F): NA

EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: < 0.1
VAPOR DENSITY: > 2.0
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.858
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: > 3.5
VISCOSITY AT 40 C, cst: 62.0
VISCOSITY AT 100 C, cst: 10.5
POUR POINT C(F): -39(-38)
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.
HAZARDOUS POLYMERIZATION: will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.
EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.
OTHER ACUTE TOXICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The

animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.

---CHRONIC TOXICOLOGY (SUMMARY)---

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For mineral base oils: Base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as Modified Ames Test, IP-346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.

---SENSITIZATION (SUMMARY)---

Not expected to be sensitizing based on tests of this product, components, or similar products.

---OTHER TOXICOLOGY DATA---

Used gasoline engine oils have shown evidence of skin carcinogenic activity in laboratory tests when no effort was made to wash the oil off between applications. Used oil from diesel engines did not produce this effect.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

In the absence of specific environmental data for this product, this assessment is based on information for representative products.

ECOTOXICITY: Available ecotoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product.

MOBILITY: When released into the environment, adsorption to sediment and soil will be the predominant behavior.

PERSISTENCE AND DEGRADABILITY: This product is expected to be inherently biodegradable.

BIOACCUMULATIVE POTENTIAL: Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU labeling not required.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, METI, DSL, KOREA, and PHILIPPINES.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains the following SARA (313) Toxic Release Chemicals:

CHEMICAL NAME	CAS NUMBER	CONC.
ZINC DITHIOPHOSPHATE	68649-42-3	1%