



611764-00 GEAR LUBE 375 NC SPRAY CAN
MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GEAR LUBE 375 NC SPRAY CAN
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037

24 - Hour Health and Safety Emergency (call collect): 609-737-4411

24 - Hour Transportation Emergency:
CHEMTREC: 800-424-9300 202-483-7616
LUBES AND FUELS: 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: 713-613-3661
MSDS Internet Website: <http://www.exxon.com>, <http://www.mobil.com>

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

GLOBALLY REPORTABLE MSDS INGREDIENTS:

Substance Name	Approx. Wt%
BITUMEN OR VACUUM RESIDUE (8052-42-4)	30-40
PROPANE (74-98-6)	10-20
HEPTANE (AND ISOMERS) (142-82-5)	10-20
HYDROTREATED LIGHT DISTILLATE (64742-47-8)	5-15
BUTANE (106-97-8)	5-15
HYDROTREATED HEAVY NAPHTHA (64742-48-9)	1-5

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

This product is considered hazardous according to regulatory guidelines (See Section 15).

EMERGENCY OVERVIEW: Black Aerosol Can. Extremely flammable. Vapor accumulation could flash and/or explode if in contact with open flame. Pressurized containers may explode if exposed to open flames or high temperatures. Exposure to fire can generate toxic fumes. DOT ERG No. : NA

POTENTIAL HEALTH EFFECTS: This product contains simple asphyxiants. Skin irritation.

POTENTIAL ENVIRONMENTAL EFFECTS: Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

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 contaminated clothing. Launder contaminated clothing before reuse.

INHALATION: Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, use mouth to mouth resuscitation.

INGESTION: Not expected to be a problem. However, if greater than 1/2 liter(pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

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: Extremely flammable. Vapor accumulation could flash and/or explode if in contact with open flame. Pressurized containers may explode if exposed to open

flames or high temperatures. Exposure to fire can generate toxic fumes.

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

Flash Point C(F): > 93(200) (ASTM D-93).

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

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

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard 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: Eliminate all ignition sources. Dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: Avoid inhalation of mists. Use in well ventilated area away from all ignition sources.

STORAGE: Store in a cool, dry, well ventilated area away from heat. Dispose of empty container as normal refuse. Do not puncture, incinerate or store at temperatures greater than 50 C (122 F).

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

Substance Name (CAS-No.)	Source	---TWA--- ppm mg/m3	----STEL--- ppm mg/m3	NOTE
<hr/>				
BITUMEN OR VACUUM RESIDUE				

(8052-42-4)					
as inh benz-sol Fumes	ACGIH	0.5			
PROPANE (74-98-6)					
	OSHA	1000	1800		
	ACGIH	2500	4508		
	XOM	1000		1500	
HEPTANE (AND ISOMERS)					
(142-82-5)					
	OSHA	400	1600	500	2000
	ACGIH	400	1640	500	2050
HYDROTREATED LIGHT					
DISTILLATE (64742-47-8)					
	ACGIH	100	525		
BUTANE (106-97-8)					
	OSHA	800	1900		
	ACGIH	800	1900		
	XOM	1000		1500	

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

VENTILATION: Use in well ventilated area.

RESPIRATORY PROTECTION: Approved respiratory protective equipment must be used when vapor or mists concentrations exceed applicable standards.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: Impervious gloves should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

APPEARANCE: Aerosol Can
 COLOR: Black
 ODOR: Mild
 ODOR THRESHOLD-ppm: NE
 pH: NA
 BOILING POINT C(F): -45(-49)
 MELTING POINT C(F): NA
 FLASH POINT C(F): > 93(200) (ASTM D-93)
 FLAMMABILITY (solids): NE
 AUTO FLAMMABILITY C(F): NA
 EXPLOSIVE PROPERTIES: NA
 OXIDIZING PROPERTIES: NA
 VAPOR PRESSURE-mmHg 20 C: NE
 VAPOR DENSITY: NE
 EVAPORATION RATE: NE
 RELATIVE DENSITY, 15/4 C: 0.78
 SOLUBILITY IN WATER: Negligible
 PARTITION COEFFICIENT: NE

VISCOSITY AT 40 C, cSt: NE
VISCOSITY AT 100 C, cSt: NE
POUR POINT C(F): NE
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE

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: Heat, sparks, flame and build up of static electricity. Contents under pressure. Do not puncture, incinerate or store at high temperatures.

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): Not established

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): Irritant. (Primary Irritation Index: 3 or greater but less than 5). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: Simple asphyxiants act by displacing oxygen in the lungs thereby diminishing the supply of oxygen available to the blood and tissues.

---OTHER TOXICOLOGY DATA---

Some asphalts may contain polycyclic aromatic compounds (PACs). The TLV of 5mg/m3 is believed to be adequate to protect workers exposed to asphalt fumes.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

This environmental assessment was conducted using information on the individual components as no test data was available for this specific formulation.

ECOTOXICITY: This material is expected to be toxic to aquatic organisms, based on the components. May cause long-term adverse effects in the aquatic environment.

MOBILITY: Not established.

PERSISTENCE AND DEGRADABILITY: Not established.

BIOACCUMULATIVE POTENTIAL: Not established.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Contents under pressure. Do not puncture, incinerate or store at temperatures greater than 50 C (122 F). Dispose of empty container as normal refuse.

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:

SHIPPING NAME:	Consumer Commodity
HAZARD CLASS & DIV:	ORM-D
ID NUMBER:	
ERG NUMBER:	
PACKING GROUP:	NA
STCC:	NE
DANGEROUS WHEN WET:	No
POISON:	No
LABEL(s):	
PLACARD(s):	
PRODUCT RQ:	NA
MARPOL III STATUS:	NA

RID/ADR:

HAZARD CLASS:	2
PACKING GROUP:	NA
LABEL:	2.1
DANGER NUMBER:	NA
UN NUMBER:	1950
SHIPPING NAME:	Aerosols
REMARKS:	NA

IMO:

HAZARD CLASS & DIV:	2
UN NUMBER:	1950
PACKING GROUP:	NA

SHIPPING NAME: Aerosols
LABEL(s): Flammable Gas
MARPOL III STATUS: NA

ICAO/IATA:

HAZARD CLASS & DIV: 2.1
ID/UN Number: 1950
PACKING GROUP: NA
SHIPPING NAME: Aerosols, flammable
SUBSIDIARY RISK: NA
LABEL(s): Flammable Gas

15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

EU Labeling: Product is dangerous as defined by the European Union Dangerous Substances/Preparations Directives.

Symbol: F+ N Extremely flammable, Dangerous for the environment.

Risk Phrase(s): R12-38-51/53.

Extremely flammable. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase(s): S2-9-16-23-24-51.

Keep out of the reach of children. Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Do not breathe spray. Avoid contact with skin. Use only in well-ventilated areas.

Contains: Propane.

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

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

SARA (311/312) REPORTABLE HAZARD CATEGORIES:
PRESSURE ACUTE

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

CHEMICAL NAME	CAS NUMBER	CONC.
NAPHTHENIC ACIDS, ZINC SALTS	12001-85-3	2%

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS *
PROPANE	74-98-6	1, 10, 19, 20, 21, 23, 24, 25, 26
BUTANE	106-97-8	1, 10, 18, 19, 20, 21, 23, 24, 25, 26
N-HEPTANE	142-82-5	1, 10, 18, 19, 20, 21, 23, 25, 26
ASPHALT (PETROLEUM)	8052-42-4	1, 18, 19, 20, 21, 23, 25, 26
NAPHTHENIC ACIDS, ZINC SALTS (2.00%)	12001-85-3	18, 20, 21, 22, 24, 25

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6=IARC 1	11=TSCA 4	16=CA P65 CARC	21=LA RTK
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	17=CA P65 REPRO	22=MI 293
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	19=FL RTK	24=NJ RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	20=IL RTK	25=PA RTK
				26=RI RTK

* EPA recently added new chemical substances to its TSCA Section 4 test rules. Please contact the supplier to confirm whether the ingredients in this product currently appear on a TSCA 4 or TSCA 12b list.

Code key:CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: AEROSOL OPEN GEAR LUBRICANT

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: 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.

Precautionary Label Text:

CONTAINS N-HEPTANE, PROPANE, HYDROTREATED LIGHT DISTILLATE

WARNING!

CONTENTS FLAMMABLE AND UNDER PRESSURE. GAS REDUCES OXYGEN AVAILABLE FOR BREATHING. MAY CAUSE SKIN, NOSE, THROAT, AND LUNG IRRITATION, DIZZINESS, NAUSEA, AND LOSS OF CONSCIOUSNESS. MAY CAUSE SKIN IRRITATION.

Keep away from heat, sparks, and flame. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120 F. Use only with adequate ventilation. Keep out of reach of children. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal. Avoid contact with skin.

FIRST AID: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get immediate medical attention. In case of contact, wash skin with soap and water. Call a physician if irritation persists.

Use only as directed.

Directions: 1. Shake well. Ball should rattle when mixing. 2. Apply on clean and dry, open gear surfaces; will also adhere to tacky non oily surfaces. 3. Spray with can in upright position. 4. If can sputters, stop spraying and rotate spray button about 1/2 turn. 5. Keep nozzle clean. If blockage occurs, remove button and clean with solvent. 6. Dries quickly when applied in a thin film.

Refer to product Material Safety Data Bulletin for further safety and health information.

For Internal Use Only: MHC: 1* 1* NE 1* 2*, MPPEC: BF, TRN:
611764-00, ELIS: 404554, CMCS97: 977440, REQ: US - MARKETING, SAFE
USE: S

EHS Approval Date: 26FEB2003

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