

Rec:  
3-31-86

250

# ExxonMobil

667022-00 MOBILARMA 245  
MATERIAL SAFETY DATA BULLETIN

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBILARMA 245  
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%
STODDARD SOLVENT (8052-41-3)	65-75
NAPHTHALENESULFONIC ACID, DINONYL-, CALCIUM SALT (57855-77-3)	1-5
SOLVENT REFINED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM) (64741-97-5)	1-5

See Section 8 for exposure limits (if applicable).

## 3. HAZARDS IDENTIFICATION

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

EMERGENCY OVERVIEW: Dark Amber Liquid. Material is combustible. DOT  
ERG No. : 128

POTENTIAL HEALTH EFFECTS: Respiratory irritation, dizziness, nausea,  
loss of consciousness. On prolonged repeated contact, this  
material may defat the skin resulting in possible irritation and  
dermatitis.

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

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4. FIRST AID MEASURES  
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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: Give 1 to 2 glasses of water. Get medical assistance and  
call a physician immediately. Do not induce vomiting or give  
anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause  
chemical pneumonitis. Treat appropriately.

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5. FIRE-FIGHTING MEASURES  
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EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire exposed  
containers cool. If a leak or spill has not ignited, use water  
spray to disperse the vapors and to protect personnel attempting  
to stop leak. Water spray may be used to flush spills away from  
exposures. 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: Material is combustible.

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

Flash Point C(F): > 38(100) (ASTM D-56).

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

NFPA HAZARD ID: Health: 0, Flammability: 2, Reactivity: 0

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6. ACCIDENTAL RELEASE MEASURES  
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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. Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up with spark-resistant shovel and remove to appropriate waste disposal facility in accordance with current applicable laws and regulations.

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

PERSONAL PRECAUTIONS: See Section 8

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## 7. HANDLING AND STORAGE

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HANDLING: Avoid prolonged repeated skin contact and breathing mists/vapors.

STORAGE: Store in a cool area away from all ignition sources.

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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m<sup>3</sup> (as oil mist)- ACGIH Threshold Limit Value (TLV), 10 mg/m<sup>3</sup> (as oil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m<sup>3</sup> (as oil mist) - OSHA Permissible Exposure Limit (PEL)

Substance Name (CAS-No.)	Source	---TWA---		----STEL---		NOTE
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
STODDARD SOLVENT (8052-41-3)						
	OSHA	100	525			
	ACGIH	100	525			

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

VENTILATION: Adequate ventilation should be provided so that

regulatory standards are not exceeded. Equipment should be explosion-proof.

RESPIRATORY PROTECTION: Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

EYE PROTECTION: Chemical type goggles should be worn during misting operations. Normal industrial eye protection practices should be employed for other use conditions.

SKIN PROTECTION: If prolonged or repeated skin contact is likely, impervious gloves should be worn. Good personal hygiene practices should always be followed.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

APPEARANCE: Liquid

COLOR: Dark Amber

ODOR: Petroleum Solvent

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 157(315)

MELTING POINT C(F): NA

FLASH POINT C(F): > 38(100) (ASTM D-56)

FLAMMABILITY (solids): NE

AUTO FLAMMABILITY C(F): NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 10.0

VAPOR DENSITY: > 5.0

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.79-0.8

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: NE

VISCOSITY AT 40 C, cSt: > 2.0

VISCOSITY AT 100 C, cSt: NE

POUR POINT C(F): NE

FREEZING POINT C(F): NE

VOC: < 70.00 (Wt. %); 4.610 lbs/gal

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

NOTE: The open cup flash point for this product is 125F. Two types of flash points are shown on this MSDS. Closed cup flash points (ASTM D-93 or D-56) are worst case and are used for regulatory compliance purposes. Open cup flash points (ASTM D-92 or COC) are more representative of normal use conditions, and are used for product specification and performance purposes.

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## 10. STABILITY AND REACTIVITY

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STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Heat, sparks, flame and build up of static electricity.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

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

HAZARDOUS POLYMERIZATION: Will not occur.

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## 11. TOXICOLOGICAL DATA

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### ---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): 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: Inhalation of vapors/mists may cause respiratory system irritation.

### ---CHRONIC TOXICOLOGY (SUMMARY)---

Certain straight-run middle distillates have been found to produce skin tumors in laboratory mouse skin-painting tests, but these have usually been associated with a high level of skin irritation. ExxonMobil has conducted tests that determined that the irritation produces the tumors. Therefore, if the precautions outlined in this bulletin are followed to minimize repeated or prolonged skin contact which could cause irritation, these oils should pose no carcinogenic hazard to humans. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

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## 12. ECOLOGICAL INFORMATION

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ENVIRONMENTAL FATE AND EFFECTS:

ECOTOXICITY: Not established.

MOBILITY: Not established.

PERSISTENCE AND DEGRADABILITY: Not established.

BIOACCUMULATIVE POTENTIAL: Not established.

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## 13. DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. 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: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP).

FLASH: > 38(100) C(F)

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14. TRANSPORT INFORMATION  
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NOTE: The flash point of this material is > 100F. Regulatory classifications vary as follows:

DOT: Flammable Liquid OR Combustible Liquid - (49CFR 173.120(b)(2))  
OSHA: Combustible Liquid  
IATA/IMO: Flammable Liquid

USA DOT:

SHIPPING NAME:	Combustible Liquid, n.o.s. (contains STODDARD SOLVENT)
HAZARD CLASS & DIV:	COMBUSTIBLE LIQUID
ID NUMBER:	NA1993
ERG NUMBER:	128
PACKING GROUP:	PG III
STCC:	NE
DANGEROUS WHEN WET:	No
POISON:	No
LABEL(s):	NA
PLACARD(s):	Combustible
PRODUCT RQ:	NA
MARPOL III STATUS:	NA

In accordance with 49 CFR 173.150(f)(2), non-bulk quantities of this material (<119 gallons per container) may be shipped as non regulated for USA domestic shipments.

RID/ADR:

HAZARD CLASS:	3
PACKING GROUP:	III
LABEL:	3
DANGER NUMBER:	30
UN NUMBER:	1993
SHIPPING NAME:	Flammable Liquids, n.o.s. (contains STODDARD SOLVENT)
REMARKS:	NA

IMO:

HAZARD CLASS & DIV: 3  
 UN NUMBER: 1993  
 PACKING GROUP: PG III  
 SHIPPING NAME: Flammable Liquids, n.o.s. (contains STODDARD SOLVENT)  
 LABEL(s): Flammable Liquid  
 MARPOL III STATUS: NA

ICAO/IATA:

HAZARD CLASS & DIV: 3  
 ID/UN Number: 1993  
 PACKING GROUP: PG III  
 SHIPPING NAME: Flammable Liquids, n.o.s. (contains STODDARD SOLVENT)  
 SUBSIDIARY RISK: NA  
 LABEL(s): Flammable Liquid

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

Governmental Inventory Status: All components comply with TSCA.

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

SARA (311/312) REPORTABLE HAZARD CATEGORIES:  
 FIRE CHRONIC ACUTE

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS *
STODDARD SOLVENT	8052-41-3	1, 10, 18, 19, 20, 21, 23, 25, 26

--- 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

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16. OTHER INFORMATION

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USE: RUST PREVENTATIVE OIL

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 STODDARD SOLVENT

CAUTION!

COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE NOSE, THROAT AND LUNG IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS. LOW VISCOSITY MATERIAL-IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL LUNG DAMAGE.

PROLONGED, REPEATED SKIN CONTACT MAY CAUSE IRRITATION.

Keep away from heat and flame. Avoid breathing mist or vapor. Do not get on skin or clothing. Keep container closed. Use adequate ventilation to keep airborne levels below regulatory limits.

FIRST AID: In case of contact, wash skin with soap and water. Remove contaminated clothing. Call a physician if irritation persists. Wash or dispose of contaminated clothing. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician immediately. If swallowed, give 1-2 glasses of milk or water. Get immediate medical attention or call a poison control center. Only induce vomiting at the instruction of a physician. Never induce vomiting or give anything by mouth to an unconscious person.

For industrial use only. Not intended or suitable for use in or around a household or dwelling.

Empty container may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container. All label warnings and precautions must be observed until container has been thoroughly cleaned or destroyed.

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

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For Internal Use Only: MHC: 1\* 1\* NE 1\* 1\*, MPPEC: DV, TRN:  
667022-00, ELIS: 404152, CMCS97: 970597, REQ: US - MARKETING, SAFE  
USE: C  
EHS Approval Date: 17JAN2002  
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Prepared by: ExxonMobil Oil Corporation  
Environmental Health and Safety Department, Clinton, USA