

604603-00 MOBIL SYNTURION 6  
MATERIAL SAFETY DATA BULLETIN

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: MOBIL **SYNTURION 6**  
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/>

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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CHEMICAL NAMES AND SYNONYMS: SYNTHETIC BASE STOCKS AND ADDITIVES

GLOBALLY REPORTABLE MSDS INGREDIENTS:

Substance Name	Approx. Wt%
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HYDROGENATED POLYOLEFIN (68649-11-6)	90-100
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LONG-CHAIN ALKYL AMINE ALKYL PHOSPHATE (80939-62-4)	<1
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OTHER INGREDIENTS:

Substance Name	Approx. Wt%
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ALKYLATED DIPHENYL AMINES (68411-46-1)	<1
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See Section 8 for exposure limits (if applicable).

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## 3. HAZARDS IDENTIFICATION

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

EMERGENCY OVERVIEW: Clear Yellow Liquid. DOT ERG No. : NA

POTENTIAL HEALTH EFFECTS: Inhalation of oil mist (viz., aerosols) at concentrations above the oil mist exposure limit may cause respiratory irritation or other pulmonary effects. Low viscosity material-if swallowed may enter the lungs and cause lung damage. 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.

INHALATION: Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation

with bag-valve-mask device or use mouth-to-mouth resuscitation.  
INGESTION: Seek immediate medical attention. Do not induce vomiting.  
NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause  
chemical pneumonitis.

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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: 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): > 140(284) (ASTM D-93).  
Flammable Limits (approx.% vol.in air) - LEL: NE, UEL: NE  
NFPA HAZARD ID: Health: 1, Flammability: 1, Reactivity: 0

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## 6. ACCIDENTAL RELEASE MEASURES

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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

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## 7. HANDLING AND STORAGE

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HANDLING: Avoid prolonged repeated skin contact. 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.

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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)

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

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation. Approved respiratory protection equipment must be used when mist concentrations exceed suggested exposure limits.

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

SKIN PROTECTION: No special equipment required. However, 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: Clear Yellow

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): NE

MELTING POINT C(F): NA

FLASH POINT C(F): > 140(284) (ASTM D-93)

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: 0.797

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 5.2

VISCOSITY AT 100 C, cSt: NE

POUR POINT C(F): -60(-76)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only

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## 10. STABILITY AND REACTIVITY

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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.

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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): Harmful (LC50: greater than 2 but 5 mg/l or less). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: 0 or greater but 6 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: 0.5 or less). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: \*\*\*Acute inhalation toxicity in rats: the 4-hour inhalation LC50 in rats is between 1.8 mg/L and 4.8 mg/L (aerosol). Due to the low vapor pressure of the product, generation of these high aerosol concentrations is unlikely to be encountered under normal industrial conditions.

---SENSITIZATION (SUMMARY)---

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

---OTHER TOXICOLOGY DATA---

21-day Human Cumulative Irritation test performed on 23 volunteers had a CII of 191/630 - probably mild.

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## 12. ECOLOGICAL INFORMATION

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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.

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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. 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.

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**14. TRANSPORT INFORMATION**  
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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

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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.

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

Symbol: Xn Harmful.

Risk Phrase(s): R20-65.

Harmful by inhalation. Harmful: may cause lung damage if swallowed.

Safety Phrase(s): S62.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Contains: Low Viscosity Synthetic Oil.

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

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES:

ACUTE

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

THIS PRODUCT MEETS THE REQUIREMENTS OF FDA REGULATIONS(S): 21 CFR 178.3570 "Lubricants with Incidental Food Contact"

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
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\*\*\* NO REPORTABLE INGREDIENTS \*\*\*

--- 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

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

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**16. OTHER INFORMATION**  
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USE: INDUSTRIAL 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 POLYALPHAOLEFINS  
WARNING!

MAY BE HARMFUL IF INHALED. LOW VISCOSITY MATERIAL-IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL LUNG DAMAGE.

FIRST AID: If inhaled, remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a bag-valve-mask device or use mouth-to-mouth resuscitation. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician.

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 Sheet for further safety and health information.

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For Internal Use Only: MHC: 0\* 0\* 2\* 0\* 0\*, MPPEC: C, TRN: 604603-00,  
CMCS97: 97U848, REQ: US - MARKETING, SAFE USE: L  
EHS Approval Date: 08OCT2002  
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