

Product Name: MOBIL JET OIL 387 Revision Date: 12 Nov 2020 Page 1 of 10

# SAFETY DATA SHEET

#### **SECTION 1**

PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

Product Name:MOBIL JET OIL 387Product Description:Synthetic Esters and AdditivesProduct Code:201550101025, 430280-00, 97AD64Intended Use:Aviation lubricating oil, Turbine oil

#### **COMPANY IDENTIFICATION**

Supplier:

EXXON MOBIL CORPORATION 22777 Springwoods Village Parkway Spring, TX 77389 USA

24 Hour Health Emergency Transportation Emergency Phone Product Technical Information MSDS Internet Address

609-737-4411 800-424-9300 or 703-527-3887 CHEMTREC 800-662-4525 www.exxon.com, www.mobil.com

#### **SECTION 2**

HAZARDS IDENTIFICATION

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

#### CLASSIFICATION:

Reproductive toxicant (fertility): Category 2.

LABEL: Pictogram:



Signal Word: Warning

#### Hazard Statements:

H361: Suspected of damaging fertility.

#### **Precautionary Statements:**

P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves and clothing.P308 + P313: IF exposed or concerned: Get medical advice/ attention.P405: Store locked up.P501: Dispose of contents and container in accordance with local regulations.

Contains: TRICRESYL PHOSPHATE



Product Name: MOBIL JET OIL 387 Revision Date: 12 Nov 2020 Page 2 of 10

#### Other hazard information:

#### HAZARD NOT OTHERWISE CLASSIFIED (HNOC): None as defined under 29 CFR 1910.1200.

#### PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

#### **HEALTH HAZARDS**

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation. This product is not expected to produce adverse health effects under normal conditions of use and with appropriate personal hygiene practices. Product may decompose at elevated temperatures or under fire conditions and give off irritating and/or harmful (carbon monoxide) gases/vapors/fumes. Symptoms from acute exposure to these decomposition products in confined spaces may include headache, nausea, eye, nose, and throat irritation.

#### **ENVIRONMENTAL HAZARDS**

No significant hazards.

NFPA Hazard ID:	Health:	1	Flammability:	1	Reactivity:	0
HMIS Hazard ID:	Health:	1*	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 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

#### Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#		GHS Hazard Codes
		Concentration*	
9,10-ANTHRACENEDIONE, 1,4-DIHYDROXY-	81-64-1	< 0.1%	H400(M factor 10), H410(M factor 10)
TRICRESYL PHOSPHATE	1330-78-5	1 - 2.5%	H361(F), H400(M factor 1), H410(M factor 1)

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

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

## 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

Product Name: MOBIL JET OIL 387 Revision Date: 12 Nov 2020 Page 3 of 10



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. Remove contaminated clothing. Launder contaminated clothing before reuse. 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. If medical attention will be delayed, contact a Regional Poison Center or emergency medical professional regarding the induction of vomiting or use of activated charcoal/syrup of ipecac. Do not induce vomiting or give anything by mouth to a groggy or unconscious person.

#### **SECTION 5**

#### FIRE FIGHTING MEASURES

#### EXTINGUISHING MEDIA

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

Inappropriate Extinguishing Media: Straight Streams of Water

#### **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: May generate irritating and harmful gases/vapors/fumes when burning.

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

#### FLAMMABILITY PROPERTIES

Flash Point [Method]: 270°C (518°F) [ASTM D-93]Flammable Limits (Approximate volume % in air):LEL: N/DAutoignition 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. US regulations require reporting releases of this material to the environment which exceed the applicable 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.



Product Name: MOBIL JET OIL 387 Revision Date: 12 Nov 2020 Page 4 of 10

#### **PROTECTIVE MEASURES**

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

#### SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

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**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

#### HANDLING AND STORAGE

### HANDLING

**SECTION 7** 

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

**Static Accumulator:** This material is a static accumulator.

#### STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Do not store in open or unlabelled containers.

### **SECTION 8**

#### **EXPOSURE CONTROLS / PERSONAL PROTECTION**

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

No biological limits allocated.



#### ENGINEERING CONTROLS

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

Adequate ventilation should be provided whenever the material is heated or mists are generated.

#### 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 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. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

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: Chemical/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**

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

#### **SECTION 9**

#### PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.



Product Name: MOBIL JET OIL 387 Revision Date: 12 Nov 2020 Page 6 of 10

## GENERAL INFORMATION

Physical State:LiquidColor:OrangeOdor:CharacteristicOdor Threshold:N/D

#### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION Relative Density (at 15 °C): 0.99 Flammability (Solid, Gas): N/A Flash Point [Method]: 270°C (518°F) [ASTM D-93] Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D Autoignition Temperature: N/D **Boiling Point / Range:** N/D **Decomposition Temperature: N/D** Vapor Density (Air = 1): N/D Vapor Pressure: [N/D at 20 °C] Evaporation Rate (n-butyl acetate = 1): N/D pH: N/A Log Pow (n-Octanol/Water Partition Coefficient): N/D Solubility in Water: Negligible Viscosity: 25 cSt (25 mm2/sec) at 40 °C | 5.1 cSt (5.1 mm2/sec) at 100°C Oxidizing Properties: See Hazards Identification Section.

#### **OTHER INFORMATION**

Freezing Point:N/DMelting Point:N/APour Point:-54°C (-65°F)

**SECTION 10** 

#### STABILITY AND REACTIVITY

**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions.

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

MATERIALS TO AVOID: Strong oxidizers

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

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

**SECTION 11** 

#### TOXICOLOGICAL INFORMATION

#### INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks
Inhalation	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.



Product Name: MOBIL JET OIL 387 Revision Date: 12 Nov 2020 Page 7 of 10

Acute Toxicity: No end point data for material. Minimally Toxic. Based on assessment of the components.   Skin Minimally Toxic. Based on assessment of the components.   Acute Toxicity: No end point data for material. Minimally Toxic. Based on assessment of the components.   Skin Corrosion/Irritation: No end point data for material. Negligible irritation to skin at ambient temperatures. Based on assessment of the components.   Eye Serious Eye Damage/Irritation: No end point data for material. May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.   Sensitization Not expected to be a respiratory sensitizer.   Skin Sensitization: No end point data for material. Not expected to be a skin sensitizer. Based on assessment of the components.   Aspiration: Data available. Not expected to be a a spiration hazard. Based on assessment of the components.   Germ Cell Mutagenicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Lactation: No end point data for material. Not exp		
material. Skin   Acute Toxicity: No end point data for material. Minimally Toxic. Based on assessment of the components.   Skin Corrosion/Irritation: No end point data for material. Negligible irritation to skin at ambient temperatures. Based on assessment of the components.   Eye Serious Eye Damage/Irritation: No end point data for material.   Serious Eye Damage/Irritation: No end point data for material. May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.   Sensitization Respiratory Sensitization: No end point data for material.   Skin Sensitization: No end point data for material. Not expected to be a skin sensitizer. Based on assessment of the components.   Aspiration: Data available. Not expected to be a a spiration hazard. Based on assessment of the components.   Germ Cell Mutagenicity: No end point data for material. Not expected to be a germ cell mutagen. Based on assessment of the components.   Garcinogenicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Carcinogenicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause productive toxicant. Based on assessment of the components. <td>Ingestion</td> <td></td>	Ingestion	
Skin   Minimally Toxic. Based on assessment of the components.     Mater Toxicity: No end point data for material.   Minimally Toxic. Based on assessment of the components.     Skin Corrosion/Irritation: No end point data for material.   Negligible irritation to skin at ambient temperatures. Based on assessment of the components.     Eye   May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.     Serious Eye Damage/Irritation: No end point data for material.   May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.     Sensitization   Not expected to be a respiratory sensitizer.     for material.   Not expected to be a skin sensitizer. Based on assessment of the components.     Aspiration: Data available.   Not expected to be a aspiration hazard. Based on physico-chemical properties of the material.     Germ Cell Mutagenicity: No end point data for material.   Not expected to cause cancer. Based on assessment of the components.     Reproductive Toxicity: No end point data for material.   Not expected to cause cancer. Based on assessment of the components.     Reproductive Toxicity: No end point data for material.   Not expected to cause cancer. Based on assessment of the components.     Lactation: No end point data for material.   Not expected to cause harm to breast-fed children.     Specific Target Organ Toxicity (STOT)   Not expected to cause organ da	Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.
Acute Toxicity: No end point data for material.Minimally Toxic. Based on assessment of the components.Skin Corrosion/Irritation: No end point data for material.Negligible irritation to skin at ambient temperatures. Based on assessment of the components.EyeMay cause mild, short-lasting discomfort to eyes. Based on assessment of the components.Serious Eye Damage/Irritation: No end point data for material.May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.SensitizationNot expected to be a respiratory sensitizer.Skin Sensitization: No end point data for material.Not expected to be a skin sensitizer. Based on assessment of the components.Aspiration: Data available.Not expected to be an aspiration hazard. Not expected to be a germ cell mutagen. Based on assessment of the components.Germ Cell Mutagenicity: No end point data for material.Not expected to be a germ cell mutagen. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Contains a substance that may be a reproductive toxicant. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause harm to breast-fed children.Specific Target Organ Toxicity (STOT)Not expected to cause organ damage from a single exposure.Single Exposure: No end point data for material.Not expected to cause organ damage from prolonged or repeated	material.	
material.Negligible irritation to skin at ambient temperatures. Based on assessment of the components.EyeMay cause mild, short-lasting discomfort to eyes. Based on assessment of the components.Serious Eye Damage/Irritation: No end point data for material.May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.SensitizationNot expected to be a respiratory sensitizer.Skin Sensitization: No end point data for material.Not expected to be a skin sensitizer. Based on assessment of the components.Aspiration: Data available.Not expected to be a naspiration hazard. Based on physico- 	Skin	
Skin Corrosion/Irritation: No end point data for material.Negligible irritation to skin at ambient temperatures. Based on assessment of the components.EyeMay cause mild, short-lasting discomfort to eyes. Based on assessment of the components.SenoitizationMay cause mild, short-lasting discomfort to eyes. Based on assessment of the components.Respiratory Sensitization: No end point data for material.Not expected to be a respiratory sensitizer.Skin Sensitization: No end point data for material.Not expected to be a skin sensitizer. Based on assessment of the components.Germ Cell Mutagenicity: No end point data for material.Not expected to be a germ cell mutagen. Based on assessment of the components.Germ Cell Mutagenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Carcinogenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause organ damage from a single exposure.Based for material.Not expected to cause organ damage from prolonged or repeatedRepeated Exposure: No end point data for material.Not expected to cause organ damage	Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.
for material. assessment of the components.   Eye Serious Eye Damage/Irritation: No end point data for material.   Sensitization May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.   Sensitization Respiratory Sensitization: No end point data for material.   Skin Sensitization: No end point data for material. Not expected to be a respiratory sensitizer. Based on assessment of the components.   Aspiration: Data available. Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.   Germ Cell Mutagenicity: No end point data for material. Not expected to be a germ cell mutagen. Based on assessment of the components.   Carcinogenicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Not expected to cause organ damage from a single exposure.   Single Exposure: No end point data for material. Not expected to cause organ damage from prolonged or repeated	material.	
Eye May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.   Sensitization Not expected to be a respiratory sensitizer.   Skin Sensitization: No end point data for material. Not expected to be a skin sensitizer. Based on assessment of the components.   Aspiration: Data available. Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.   Germ Cell Mutagenicity: No end point data for material. Not expected to be a germ cell mutagen. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Specific Target Organ Toxicity (STOT) Not expected to cause organ damage from a single exposure.   Single Exposure: No end point data for material. Not expected to cause organ damage from prolonged or repeated	Skin Corrosion/Irritation: No end point data	Negligible irritation to skin at ambient temperatures. Based on
Serious Eye Damage/Irritation: No end point data for material.May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.SensitizationNot expected to be a respiratory sensitizer.Sensitization: No end point data for material.Not expected to be a skin sensitizer. Based on assessment of the components.Aspiration: Data available.Not expected to be an aspiration hazard. Not expected to be an aspiration hazard. Based on physico- chemical properties of the material.Germ Cell Mutagenicity: No end point data for material.Not expected to be a germ cell mutagen. Based on assessment of the components.Carcinogenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Contains a substance that may be a reproductive toxicant. Based on assessment of the components.Not expected to cause harm to breast-fed children.Specific Target Organ Toxicity (STOT)Not expected to cause organ damage from a single exposure. Not expected to cause organ damage from prolonged or repeated	for material.	assessment of the components.
data for material. assessment of the components.   Sensitization Respiratory Sensitization: No end point data for material.   Skin Sensitization: No end point data for material. Not expected to be a skin sensitizer. Based on assessment of the components.   Aspiration: Data available. Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.   Germ Cell Mutagenicity: No end point data for material. Not expected to be a germ cell mutagen. Based on assessment of the components.   Carcinogenicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Single Exposure: No end point data for material.   Reproductive: No end point data for material. Not expected to cause organ damage from a single exposure.   Repreded Exposure: No end point data for Not expected to cause organ damage from prolonged or repeated	Еуе	
SensitizationRespiratory Sensitization: No end point data for material.Not expected to be a respiratory sensitizer.Skin Sensitization: No end point data for material.Not expected to be a skin sensitizer. Based on assessment of the components.Aspiration: Data available.Not expected to be an aspiration hazard.Based on physico- chemical properties of the material.Germ Cell Mutagenicity: No end point data for material.Not expected to be a germ cell mutagen. Based on assessment of the components.Carcinogenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Carcinogenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Contains a substance that may be a reproductive toxicant. Based on assessment of the components.Lactation: No end point data for material.Not expected to cause harm to breast-fed children.Specific Target Organ Toxicity (STOT)Not expected to cause organ damage from a single exposure.Single Exposure: No end point data for material.Not expected to cause organ damage from prolonged or repeated	Serious Eye Damage/Irritation: No end point	
Respiratory Sensitization: No end point data for material.Not expected to be a respiratory sensitizer.Skin Sensitization: No end point data for material.Not expected to be a skin sensitizer. Based on assessment of the components.Aspiration: Data available.Not expected to be an aspiration hazard. Based on physico- chemical properties of the material.Germ Cell Mutagenicity: No end point data for material.Not expected to be a germ cell mutagen. Based on assessment of the components.Germ Cell Mutagenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Carcinogenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Contains a substance that may be a reproductive toxicant. Based on assessment of the components.Lactation: No end point data for material.Not expected to cause harm to breast-fed children.Specific Target Organ Toxicity (STOT)Not expected to cause organ damage from a single exposure.Single Exposure: No end point data for material.Not expected to cause organ damage from prolonged or repeated	data for material.	assessment of the components.
for material. Not expected to be a skin sensitizer. Based on assessment of the components.   Aspiration: Data available. Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.   Germ Cell Mutagenicity: No end point data for material. Not expected to be a germ cell mutagen. Based on assessment of the components.   Garcinogenicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Contains a substance that may be a reproductive toxicant. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Not expected to cause organ damage from a single exposure.   Single Exposure: No end point data for material. Not expected to cause organ damage from prolonged or repeated	Sensitization	
Skin Sensitization: No end point data for material.Not expected to be a skin sensitizer. Based on assessment of the components.Aspiration: Data available.Not expected to be an aspiration hazard. Not expected to be an aspiration hazard. Based on physico- chemical properties of the material.Germ Cell Mutagenicity: No end point data for material.Not expected to be a germ cell mutagen. Based on assessment of the components.Garcinogenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Carcinogenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Repeated Exposure: No end point data for material.Not expected to cause organ damage from prolonged or repeatedSingle Exposure: No end point data for material.Not expected to cause organ damage from prolonged or repeated	Respiratory Sensitization: No end point data	Not expected to be a respiratory sensitizer.
material.components.Aspiration: Data available.Not expected to be an aspiration hazard. Based on physico- chemical properties of the material.Germ Cell Mutagenicity: No end point data for material.Not expected to be a germ cell mutagen. Based on assessment of the components.Carcinogenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Based on assessment of the components.Not expected to cause cancer. Based on assessment of the components.Based on assessment of the components.Not expected to cause cancer. Based on assessment of the components.Based on assessment of the components.Not expected to cause harm to breast-fed children.Specific Target Organ Toxicity (STOT)Not expected to cause organ damage from a single exposure. material.Single Exposure: No end point data for material.Not expected to cause organ damage from prolonged or repeatedRepeated Exposure: No end point data for material.Not expected to cause organ damage from prolonged or repeated	for material.	
Aspiration: Data available.Not expected to be an aspiration hazard.Based on physico- chemical properties of the material.Germ Cell Mutagenicity: No end point data for material.Not expected to be a germ cell mutagen. Based on assessment of the components.Carcinogenicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause cancer. Based on assessment of the components.Reproductive Toxicity: No end point data for material.Not expected to cause harm to breast-fed children.Specific Target Organ Toxicity (STOT)Not expected to cause organ damage from a single exposure.Single Exposure: No end point data for material.Not expected to cause organ damage from prolonged or repeated	Skin Sensitization: No end point data for	Not expected to be a skin sensitizer. Based on assessment of the
Chemical properties of the material.   Germ Cell Mutagenicity: No end point data for material. Not expected to be a germ cell mutagen. Based on assessment of the components.   Carcinogenicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Contains a substance that may be a reproductive toxicant. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Not expected to cause organ damage from a single exposure.   Single Exposure: No end point data for material. Not expected to cause organ damage from prolonged or repeated	material.	components.
Germ Cell Mutagenicity: No end point data for material. Not expected to be a germ cell mutagen. Based on assessment of the components.   Carcinogenicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Contains a substance that may be a reproductive toxicant. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Not expected to cause organ damage from a single exposure.   Single Exposure: No end point data for material. Not expected to cause organ damage from prolonged or repeated	Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico-
for material. the components.   Carcinogenicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Contains a substance that may be a reproductive toxicant. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Single Exposure: No end point data for material.   Repeated Exposure: No end point data for Not expected to cause organ damage from a single exposure.		
Carcinogenicity: No end point data for material. Not expected to cause cancer. Based on assessment of the components.   Reproductive Toxicity: No end point data for material. Contains a substance that may be a reproductive toxicant. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Not expected to cause organ damage from a single exposure.   Single Exposure: No end point data for material. Not expected to cause organ damage from prolonged or repeated		
material. components.   Reproductive Toxicity: No end point data for material. Contains a substance that may be a reproductive toxicant. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Not expected to cause organ damage from a single exposure.   Single Exposure: No end point data for material. Not expected to cause organ damage from a single exposure.   Repeated Exposure: No end point data for Not expected to cause organ damage from prolonged or repeated		the components.
Reproductive Toxicity: No end point data for material. Contains a substance that may be a reproductive toxicant. Based on assessment of the components.   Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Not expected to cause organ damage from a single exposure.   Single Exposure: No end point data for material. Not expected to cause organ damage from a single exposure.   Repeated Exposure: No end point data for Not expected to cause organ damage from prolonged or repeated		
for material. on assessment of the components.   Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Single Exposure: No end point data for material.   Repeated Exposure: No end point data for Not expected to cause organ damage from a single exposure.		
Lactation: No end point data for material. Not expected to cause harm to breast-fed children.   Specific Target Organ Toxicity (STOT) Not expected to cause organ damage from a single exposure.   Single Exposure: No end point data for material. Not expected to cause organ damage from a single exposure.   Repeated Exposure: No end point data for Not expected to cause organ damage from prolonged or repeated		
Specific Target Organ Toxicity (STOT)     Single Exposure: No end point data for material.   Not expected to cause organ damage from a single exposure.     Repeated Exposure: No end point data for   Not expected to cause organ damage from prolonged or repeated		
Single Exposure: No end point data for material.Not expected to cause organ damage from a single exposure.Repeated Exposure: No end point data for Repeated Exposure: No end point data forNot expected to cause organ damage from prolonged or repeated		Not expected to cause harm to breast-fed children.
material. Repeated Exposure: No end point data for Not expected to cause organ damage from prolonged or repeated		
Repeated Exposure: No end point data for Not expected to cause organ damage from prolonged or repeated	Single Exposure: No end point data for	Not expected to cause organ damage from a single exposure.
	material.	
material. exposure. Based on assessment of the components.		
	material.	exposure. Based on assessment of the components.

## OTHER INFORMATION

#### For the product itself:

A literature report of a generic jet engine oil containing tri-cresyl phosphate (TCP) with concentrations of ortho-phenol isomers well in excess of those found in this ExxonMobil product noted delayed peripheral nerve system damage in test animals. A current study of an ExxonMobil Jet Oil formulated with a relatively low ortho-phenol isomer content produced no peripheral nerve system damage in test animals. Oral exposure of male rats to a generic jet engine oil containing 3% of a commercial aryl phosphate product had no effect on male reproductive end points (organ weights, histology, sperm morphology or motility).

#### Contains:

Tricresyl phosphate (TCP): TCP (<9% ortho isomer) administered to rats by oral gavage in a one-generation reproduction/developmental toxicology study adversely affected both males and females. TCP-treated male rats had decreased sperm concentration and motility, abnormal sperm morphology and adverse histologic changes in the testes and epididymides. Adverse histologic changes were also observed in the ovaries of TCP-treated female rats. The percent of sperm-positive females littering was significantly reduced in the TCP-treatment groups with only one of twenty females in the high dose group delivering young. Developmental parameters were unaffected by TCP exposure. Impaired fertility and decreased sperm motility following TCP treatment have also been reported in a reproduction toxicity study in mice.

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



Product Name: MOBIL JET OIL 387 Revision Date: 12 Nov 2020 Page 8 of 10

	REGULATORY LISTS SE	ARCHED
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 for the material, components of the material, or for similar materials, through the application of bridging principals.

#### ECOTOXICITY

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

#### PERSISTENCE AND DEGRADABILITY

**Biodegradation:** 

Material -- Expected to be inherently biodegradable

### ECOLOGICAL DATA

#### Ecotoxicity

Test	Duration	Organism Type	Test Results
Aquatic - Chronic Toxicity	21 day(s)	Daphnia magna	NOELR 1 mg/l

#### 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**

Dispose of waste at an appropriate treatment & disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants. Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration.

#### **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, corrositivity 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** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.



Product Name: MOBIL JET OIL 387 Revision Date: 12 Nov 2020 Page 9 of 10

THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

#### SECTION 14 TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

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

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

#### SECTION 15 REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

Listed or exempt from listing/notification on the following chemical inventories: AlIC, DSL, ISHL, KECI, TCSI, TSCA

#### Special Cases:

Inventory	Status
IECSC	Restrictions Apply
PICCS	Restrictions Apply

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA (311/312) REPORTABLE GHS HAZARD CLASSES: Reproductive toxicity

**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

#### The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
TRICRESYL PHOSPHATE	1330-78-5	17

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		



Product Name: MOBIL JET OIL 387 Revision Date: 12 Nov 2020 Page 10 of 10

#### 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

#### KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

H361(F): Suspected of damaging fertility; Repro Tox, Cat 2 (Fertility) H400: Very toxic to aquatic life; Acute Env Tox, Cat 1 H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

#### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

GHS Health Symbol information was modified. Section 15: National Chemical Inventory Listing information was modified. Section 15: Special Cases Table information was modified.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

Internal Use Only MHC: 0, 0, 0, 0, 0, 0

PPEC: C

DGN: 7080274XUS (1012700)

Copyright 2002 Exxon Mobil Corporation, All rights reserved