

Product Name: MOBIL AERO HF  
Revision Date: 01 Dec 2022  
Revision Number: 4.00  
Page 1 of 15

## SAFETY DATA SHEET

<b>SECTION 1</b>	<b>IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING</b>
------------------	---

As of the revision date above, this SDS meets the regulations in Ireland and Northern Ireland.

### 1.1. PRODUCT IDENTIFIER

**Product Name:** MOBIL AERO HF  
**Product Description:** Base Oil and Additives  
**Product Code:** 201550401010, 490128-00  
**UFI:** STA2-A0UM-N00E-SY69

### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

**Intended Use:** Aviation hydraulic fluid

**Uses advised against:** This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above.

### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Supplier:** ExxonMobil Petroleum & Chemical BVBA  
POLDERDIJKWEG  
B-2030 Antwerpen  
Belgium

<b>Product Technical Information:</b>	(IE) 1800 882 024 / (UK) 0800 028 2851
<b>Supplier General Contact:</b>	(IE) 1800 882 024 / (UK) 0800 028 2851
<b>SDS Internet Address:</b>	<a href="http://www.msds.exxonmobil.com">www.msds.exxonmobil.com</a>
<b>Supplier / Registrant:</b>	(BE) +32 3 790 3111

### 1.4. EMERGENCY TELEPHONE NUMBER

<b>24 Hour Emergency Telephone:</b>	(IE) +353-1-901-4670 (CHEMTREC) / (UK) +44-870-820-04-18 (CHEMTREC)
<b>National Poison Control Centre:</b>	(IE) (+353)1 809 2166 (8am - 10pm every day) / (UK) 111

<b>SECTION 2</b>	<b>HAZARDS IDENTIFICATION</b>
------------------	-------------------------------

### 2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE

#### Classification according to Regulation (EC) No 1272/2008

Aspiration toxicant: Category 1., H304: May be fatal if swallowed and enters airways.

Skin irritation: Category 2., H315: Causes skin irritation.

Chronic aquatic toxicant: Category 2., H411: Toxic to aquatic life with long lasting effects.

### 2.2. LABEL ELEMENTS

Label elements according to Regulation (EC) No 1272/2008

Product Name: MOBIL AERO HF  
Revision Date: 01 Dec 2022  
Revision Number: 4.00  
Page 2 of 15

---

**Pictograms:**

**Signal Word:** Danger

**Hazard Statements:****Health:**

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

**Environment:**

H411: Toxic to aquatic life with long lasting effects.

**Precautionary Statements:****Prevention:**

P264: Wash skin thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves.

**Response:**

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P331: Do NOT induce vomiting.

P332 + P313: If skin irritation occurs: Get medical advice/ attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

**Storage:**

P405: Store locked up.

**Disposal:**

P501: Dispose of contents and container in accordance with local regulations.

**Contains:** Distillates (petroleum), hydro- treated light; Distillates (petroleum), hydrotreated light naphthenic; Distillates (petroleum), hydrotreated middle

## 2.3. OTHER HAZARDS

**Physical / Chemical Hazards:**

Material can accumulate static charges which may cause an ignition. Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited. Combustible.

**Health Hazards:**

High-pressure injection under skin may cause serious damage. May be irritating to the eyes, nose, throat, and

Product Name: MOBIL AERO HF  
Revision Date: 01 Dec 2022  
Revision Number: 4.00  
Page 3 of 15

lungs.

#### Environmental Hazards:

No additional hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

#### Endocrine Disrupting Properties:

Contains no substance(s) known to have endocrine disrupting properties.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

**3.1. SUBSTANCES** Not Applicable. This material is regulated as a mixture.

#### 3.2. MIXTURES

This material is defined as a mixture.

#### Reportable hazardous substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

Name	CAS#	EC#	Registration#	Concentration *	GHS/CLP classification	Specific Conc. Limits, M-factors and ATEs
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	204-881-4	01-2119565113-46	0.25 - < 1%	Aquatic Acute 1 H400 (M factor 1), Aquatic Chronic 1 H410 (M factor 1)	-
Distillates (petroleum), hydro- treated light	64742-47-8	265-149-8	01-2119484819-18	5 - < 10%	Asp. Tox. 1 H304, EUH066	-
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	01-2119480375-34	60 - < 70%	[Flam. Liq. 4 H227], Asp. Tox. 1 H304	-
Distillates (petroleum), hydrotreated middle	64742-46-7	265-148-2	01-2119489867-12	15 - < 20%	[Aquatic Acute 2 H401], Aquatic Chronic 2 H411, [Flam. Liq. 4 H227], Acute Tox. 4 H332, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Note N	-
PHENOL, ISOBUTYLENATED, PHOSPHATE (3:1) [TRIPHENYL PHOSPHATE >= 25%]	-	700-990-0	01-2119519251-50	0.25 - < 1%	Aquatic Acute 1 H400 (M factor 1), Aquatic Chronic 1 H410 (M factor 1)	-

Note - any classification in brackets is a GHS building block that was not adopted by the EU in the CLP regulation (No 1272/2008) and therefore is not applicable in the EU or in non-EU countries which have implemented the CLP regulation and is shown for

Product Name: MOBIL AERO HF  
Revision Date: 01 Dec 2022  
Revision Number: 4.00  
Page 4 of 15

informational purposes only.

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

Note: See SDS Section 16 for full text of hazard statements.

## **SECTION 4 FIRST AID MEASURES**

### **4.1. DESCRIPTION OF FIRST AID MEASURES**

#### **INHALATION**

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

#### **SKIN CONTACT**

Wash contact areas with soap and water. 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. Do not induce vomiting.

### **4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

Itching, pain, redness, swelling of skin. Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

### **4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

## **SECTION 5 FIRE FIGHTING MEASURES**

### **5.1. EXTINGUISHING MEDIA**

**Suitable Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Unsuitable Extinguishing Media:** Straight streams of water

### **5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

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

Product Name: MOBIL AERO HF  
Revision Date: 01 Dec 2022  
Revision Number: 4.00  
Page 5 of 15

---

### 5.3. ADVICE FOR FIRE FIGHTERS

**Fire Fighting Instructions:** Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters 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:** Combustible. Pressurised mists may form a flammable mixture. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

### FLAMMABILITY PROPERTIES

**Flash Point [Method]:** >82°C (180°F) [ASTM D-93]

**Upper/Lower Flammable Limits (Approximate volume % in air):** UEL: 7.0 LEL: 0.7 [test method unavailable]

**Autoignition Temperature:** >225°C (437°F) [test method unavailable]

<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
------------------	------------------------------------

## 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. See 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.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

## 6.2. ENVIRONMENTAL PRECAUTIONS

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

## 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

**Land Spill:** Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A

Product Name: MOBIL AERO HF

Revision Date: 01 Dec 2022

Revision Number: 4.00

Page 6 of 15

vapour-suppressing foam may be used to reduce vapour. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large Spills: Water spray may reduce vapour, but may not prevent ignition in enclosed spaces. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Water Spill:** Stop leak if you can do so 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.

#### 6.4. REFERENCES TO OTHER SECTIONS

See Sections 8 and 13.

### SECTION 7

### HANDLING AND STORAGE

#### 7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin. Avoid prolonged breathing of mists and heated vapour. 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 earthing procedures. However, bonding and earthing 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.

#### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

The type of container used to store the material may affect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be earthed and bonded to prevent accumulation of static charge.

#### 7.3. SPECIFIC END USES

Section 1 informs about identified end-uses. No industrial or sector specific guidance available.

### SECTION 8

### EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. CONTROL PARAMETERS

#### EXPOSURE LIMIT VALUES

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

Product Name: MOBIL AERO HF

Revision Date: 01 Dec 2022

Revision Number: 4.00

Page 7 of 15

Substance Name	Form	Limit/Standard			Note	Source
2,6-DI-TERT-BUTYL-P-CRESOL		TWA	2 mg/m <sup>3</sup>			Ireland OELs
2,6-DI-TERT-BUTYL-P-CRESOL		TWA	10 mg/m <sup>3</sup>			UK EH40
2,6-DI-TERT-BUTYL-P-CRESOL	Inhalable fraction and vapour	TWA	2 mg/m <sup>3</sup>			ACGIH
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT [total hydrocarbon vapour]	Non-Aerosol	TWA	200 mg/m <sup>3</sup>		Skin	ACGIH
Distillates (petroleum), hydrotreated light naphthenic	Inhalable fraction.	TWA	5 mg/m <sup>3</sup>			ACGIH

IE - Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

UK - EH40 Workplace Exposure Limits. Exposure limits for use with Control of Substances Hazardous to Health Regulations 2002 (as amended)

**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following is recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction).

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s):

IE Health and Safety Executive (HSE)  
UK Health and Safety Executive (HSE)

## 8.2. EXPOSURE CONTROLS

### ENGINEERING CONTROLS

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

Use explosion-proof ventilation equipment to stay below exposure limits.

### 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 special requirements under ordinary 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/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Product Name: MOBIL AERO HF

Revision Date: 01 Dec 2022

Revision Number: 4.00

Page 8 of 15

**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. Nitrile, CEN standards EN 420 and EN 374 provide general requirements and lists of glove types.

**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.

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Colour:** Red

**Odour:** Characteristic

**Odour Threshold:** No data available

**Melting Point / Freezing Point:** Not technically feasible / No data available

**Initial Boiling Point / and Boiling Range:** No data available

**Flammability (Solid, Gas):** Not technically feasible

**Lower and Upper explosion limit:** UEL: 7.0 LEL: 0.7 [test method unavailable]

**Flash Point [Method]:** >82°C (180°F) [ASTM D-93]

**Autoignition Temperature:** >225°C (437°F) [test method unavailable]

**Decomposition Temperature:**

**pH:** Not technically feasible

**Kinematic Viscosity:** 13.8 cSt (13.8 mm<sup>2</sup>/sec) at 40°C | 5.1 cSt (5.1 mm<sup>2</sup>/sec) at 100°C [test method unavailable]

**Solubility:** Negligible

**Partition coefficient (n-Octanol/Water Partition Coefficient):** No data available

**Vapour Pressure:** [N/D at 20°C] [test method unavailable]

**Relative Density (at 15 °C):** 0.88 [test method unavailable]



Product Name: MOBIL AERO HF  
Revision Date: 01 Dec 2022  
Revision Number: 4.00  
Page 9 of 15

**Relative Vapour Density (Air = 1):** No data available  
**Evaporation Rate (n-butyl acetate = 1):** No data available  
**Explosive Properties:**  
**Oxidizing Properties:**  
**Particle Characteristics**  
**Median particle size:** Not Applicable

## 9.2. OTHER INFORMATION

**Pour Point:** -60°C (-76°F) [test method unavailable]  
**DMSO Extract (mineral oil only), IP-346:** < 3 %wt

### 9.2.1. INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

No data available

### 9.2.2. OTHER SAFETY CHARACTERISTICS

No data available

## SECTION 10 STABILITY AND REACTIVITY

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

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

**10.3. POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

**10.4. CONDITIONS TO AVOID:** Open flames and high energy ignition sources.

**10.5. INCOMPATIBLE MATERIALS:** Strong oxidisers

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

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

<b>Hazard Class</b>	<b>Conclusion / Remarks</b>
<b>Inhalation</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Elevated temperatures or mechanical action may form vapours, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
<b>Ingestion</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
<b>Skin</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin Corrosion/Irritation: No end point data	Irritating to the skin. Based on assessment of the components.

Product Name: MOBIL AERO HF

Revision Date: 01 Dec 2022

Revision Number: 4.00

Page 10 of 15

for material.	
<b>Eye</b>	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
<b>Sensitisation</b>	
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.
<b>Aspiration:</b> Data available.	May be fatal if swallowed and enters airways. Based on physico-chemical properties of the material.
<b>Germ Cell Mutagenicity:</b> No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
<b>Carcinogenicity:</b> No end point data for material.	Not expected to cause cancer. Based on assessment of the components.
<b>Reproductive Toxicity:</b> No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.
<b>Lactation:</b> No end point data for material.	Not expected to cause harm to breast-fed children.
<b>Specific Target Organ Toxicity (STOT)</b>	
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 material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

## 11.2. INFORMATION ON OTHER HAZARDS

### 11.2.1 ENDOCRINE DISRUPTING PROPERTIES

Contains no substance(s) known to have endocrine disrupting properties that affect human health.

### 11.2.2 OTHER INFORMATION

**For the product itself:**

Repeated and/or prolonged exposure may cause irritation to the skin, eyes, or respiratory tract. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

#### **Contains:**

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitising in test animals. Middle distillates: Carcinogenic in animal tests. Lifetime skin painting tests produced tumours, but the mechanism is due to repeated cycles of skin damage and restorative hyperplasia. This mechanism is considered unlikely in humans where such prolonged skin irritation would not be tolerated. Did not cause mutations in-vitro. Inhalation of vapours did not result in reproductive or developmental effects in laboratory animals. Inhalation of high concentrations in animals resulted in respiratory tract irritation, lung changes and some reduction in lung function. Non-sensitising in test animals.

## 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.

### 12.1. TOXICITY

Material -- Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Product Name: MOBIL AERO HF  
Revision Date: 01 Dec 2022  
Revision Number: 4.00  
Page 11 of 15

---

## 12.2. PERSISTENCE AND DEGRADABILITY

### Biodegradation:

Components -- Expected to be inherently biodegradable

## 12.3. BIOACCUMULATIVE POTENTIAL

Majority of components -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

## 12.4. MOBILITY IN SOIL

More volatile component -- Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

Less volatile component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

## 12.5. PERSISTENCE, BIOACCUMULATION AND TOXICITY FOR SUBSTANCE(S)

Material does not meet the Reach Annex XIII criteria for PBT or vPvB.

## 12.6. ENDOCRINE DISRUPTING PROPERTIES

Contains no substance(s) known to have endocrine disrupting properties that affect the environment.

## 12.7. OTHER ADVERSE EFFECTS

No adverse effects are expected.

## 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.

### 13.1. WASTE TREATMENT METHODS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

**European Waste Code:** 13 01 10\*

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

This material is considered as hazardous waste pursuant to The Hazardous Waste Regulations (HWR), and subject to the provisions of those Regulations.

**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

Product Name: MOBIL AERO HF  
Revision Date: 01 Dec 2022  
Revision Number: 4.00  
Page 12 of 15

SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
-------------------	------------------------------

**LAND (ADR/RID)**

**14.1. UN (or ID) Number:** 3082  
**14.2. UN Proper Shipping Name (Technical Name):** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated middle, 2,6-DI-TERT-BUTYL-P-CRESOL, PHENOL, ISOBUTYLENATED, PHOSPHATE (3:1)[TRIPHENYL PHOSPHATE >=25%])  
**14.3. Transport Hazard Class(es):** 9  
**14.4. Packing Group:** III  
**14.5. Environmental Hazards:** Yes  
**14.6. Special Precautions for users:**  
**Classification Code:** M6  
**Label(s) / Mark(s):** 9, EHS  
**Hazard ID Number:** 90  
**Hazchem EAC:** 3Z

**INLAND WATERWAYS (ADN)**

**14.1. UN (or ID) Number:** 3082  
**14.2. UN Proper Shipping Name (Technical Name):** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated middle, 2,6-DI-TERT-BUTYL-P-CRESOL, PHENOL, ISOBUTYLENATED, PHOSPHATE (3:1)[TRIPHENYL PHOSPHATE >=25%])  
**14.3. Transport Hazard Class(es):** 9  
**14.4. Packing Group:** III  
**14.5. Environmental Hazards:** Yes  
**14.6. Special Precautions for users:**  
**Hazard ID Number:** 90  
**Label(s) / Mark(s):** 9, EHS

**SEA (IMDG)**

**14.1. UN (or ID) Number:** 3082  
**14.2. UN Proper Shipping Name (Technical Name):** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated middle, 2,6-DI-TERT-BUTYL-P-CRESOL, PHENOL, ISOBUTYLENATED, PHOSPHATE (3:1)[TRIPHENYL PHOSPHATE >=25%])  
**14.3. Transport Hazard Class(es):** 9  
**14.4. Packing Group:** III  
**14.6. Special Precautions for users:**  
**Label(s):** 9  
**EMS Number:** F-A, S-F  
**Transport Document Name:** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYDROTREATED MIDDLE DISTILLATE (PETROLEUM), 2,6-DI-TERT-BUTYL-P-CRESOL, PHENOL, ISOBUTYLENATED, PHOSPHATE (3:1)[TRIPHENYL PHOSPHATE >=25%]), 9, PG III

Footnote: Not subject to the provisions of UN3082 Environmentally hazardous substances liquid, n.o.s., if shipped in quantities of 5 liters or less per single or inner combination packaging as per IMDG code 2.10.2.7.

Product Name: MOBIL AERO HF  
Revision Date: 01 Dec 2022  
Revision Number: 4.00  
Page 13 of 15

---

**SEA (MARPOL 73/78 Convention - Annex II):****14.7. Maritime transport in bulk according to IMO instruments**

Not classified according to Annex II

**AIR (IATA)**

**14.1. UN Number:** 3082

**14.2. UN Proper Shipping Name (Technical Name):** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated middle, 2,6-DI-TERT-BUTYL-P-CRESOL, PHENOL, ISOBUTYLENATED, PHOSPHATE (3:1)[TRIPHENYL PHOSPHATE >=25%])

**14.3. Transport Hazard Class(es):** 9

**14.4. Packing Group:** III

**14.5. Environmental Hazards:** Yes

**14.6. Special Precautions for users:**

**Label(s) / Mark(s):** 9, EHS

**Transport Document Name:** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (HYDROTREATED MIDDLE DISTILLATE (PETROLEUM), 2,6-DI-TERT-BUTYL-P-CRESOL, PHENOL, ISOBUTYLENATED, PHOSPHATE (3:1)[TRIPHENYL PHOSPHATE >=25%]), 9, PG III

[Footnote: Not subject to the provisions of UN3082 Environmentally hazardous substances liquid, n.o.s., if shipped in quantities of 5 liters or less per single or inner combination packaging as per Special Provision A197.]

<b>SECTION 15</b>
-------------------

<b>REGULATORY INFORMATION</b>
-------------------------------

**REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS**

**Listed or exempt from listing/notification on the following chemical inventories :** AIIIC, DSL, ENCS, IECSC, ISHL, KECI, PICCS, TCSI, TSCA

**15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE****Applicable EU Directives and Regulations:**

1907/2006 [... on the Registration, Evaluation, Authorisation and Restriction of Chemicals ... and amendments thereto]

1272/2008 [on classification, labelling and packaging of substances and mixtures.. and amendments thereto]

**REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII):**

The following entries of Annex XVII may be considered for this product: None

**15.2. CHEMICAL SAFETY ASSESSMENT**

**REACH Information:** A Chemical Safety Assessment has been carried out for one or more substances present in the material.

Product Name: MOBIL AERO HF  
Revision Date: 01 Dec 2022  
Revision Number: 4.00  
Page 14 of 15

## SECTION 16 OTHER INFORMATION

**REFERENCES:** Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, CONCAWE Product Dossiers, publications from other trade associations, such as the EU Hydrocarbon Solvents REACH Consortium, U.S. HPV Program Robust Summaries, the EU IUCLID Data Base, U.S. NTP publications, and other sources, as appropriate.

### List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

Acronym	Full text
N/A	Not applicable
N/D	Not determined
NE	Not established
VOC	Volatile Organic Compound
AIIC	Australian Inventory of Industrial Chemicals
AIHA WEEL	American Industrial Hygiene Association Workplace Environmental Exposure Limits
ASTM	ASTM International, originally known as the American Society for Testing and Materials (ASTM)
DSL	Domestic Substance List (Canada)
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of Notified Chemical Substances
ENCS	Existing and new Chemical Substances (Japanese inventory)
IECSC	Inventory of Existing Chemical Substances in China
KECI	Korean Existing Chemicals Inventory
NDSL	Non-Domestic Substances List (Canada)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TLV	Threshold Limit Value (American Conference of Governmental Industrial Hygienists)
TSCA	Toxic Substances Control Act (U.S. inventory)
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
LC	Lethal Concentration
LD	Lethal Dose
LL	Lethal Loading
EC	Effective Concentration
EL	Effective Loading
NOEC	No Observable Effect Concentration
NOELR	No Observable Effect Loading Rate

### Classification according to Regulation (EC) No 1272/2008

Classification according to Regulation (EC) No 1272/2008	Classification procedure
Aquatic Chronic 2; H411	Calculation
Asp. Tox. 1; H304	Based on test data
Skin Irrit. 2; H315	Calculation

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

[Flam. Liq. 4 H227]: Combustible liquid; Flammable Liquid, Cat 4  
Asp. Tox. 1 H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1  
Skin Irrit. 2 H315: Causes skin irritation; Skin Corr/Irritation, Cat 2  
Acute Tox. 4 H332: Harmful if inhaled; Acute Tox Inh, Cat 4

Product Name: MOBIL AERO HF

Revision Date: 01 Dec 2022

Revision Number: 4.00

Page 15 of 15

---

Aquatic Acute 1 H400: Very toxic to aquatic life; Acute Env Tox, Cat 1  
[Aquatic Acute 2 H401]: Toxic to aquatic life; Acute Env Tox, Cat 2  
Aquatic Chronic 1 H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1  
Aquatic Chronic 2 H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2  
EUH066: Repeated exposure may cause skin dryness or cracking.

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

Composition: Component Table for REACH information was modified.  
Composition: Concentration Footnote information was added.  
Section 08: Exposure Limits Table information was modified.  
Section 09 median particle size information was added.  
Section 09: Freezing Point °C(°F) information was deleted.  
Section 09: Melting Point C(F) information was deleted.  
Section 1: UFI information was modified.  
Section 11 EU Annex II Endocrine Disruptor Data information was added.  
Section 12 EU Annex II Endocrine Disruptor Data information was added.  
Section 2 EU Annex II Endocrine Disruptor Data information was added.  
Section 9 melting and freezing points information was added.

---

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, re-publication 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: 2A, 0, 0, 0, 4, 1

PPEC: C

DGN: 2005457XIE (1015359)

---

<b>ANNEX</b>
--------------

Annex not required for this material.