SAFETY DATA SHEET



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MOBIL AGL - SYNTHETIC AVIATION GEAR LUBRICANT

Section 1. Identification

Product name	: MOBIL AGL - SYNTHETIC AVIATION GEAR LUBRICANT
Product description	: synthetic base stocks and additives
Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	: Aviation lubricating oil, Gear oil
Uses advised against	: This product is not recommended for any industrial, professional or consumer use other than the identified uses above.
Supplier	: EXXON MOBIL CORPORATION
	22777 Springwoods Village Parkway Spring, TX_77389_USA
24-Hour emergency telephone number	: 1-800-424-9300 / +1 703-741-5970 / +1-703-527-3887 (CHEMTREC)
Product Technical Information	: 800-662-4525
SDS Internet Address	· www.sds.exvonmobil.com

Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
Hazards not otherwise classified	: None known.
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

Substance/mixture

: Mixture

Ingredient name	% by weight	Identifiers
kerosene	≤0.3	CAS: 8008-20-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower Eye contact eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. **Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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. Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health	effects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	symptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.
Ingestion	: No specific data.
Indication of immediate	e medical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large

	quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, sulfur oxides

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Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Assure an extended cooling down period to prevent re-ignition. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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.

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Confine the spill immediately with booms. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Warn other shipping. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

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Static Accumulator :	This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid.
Conditions for safe storage, : including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
1-decene, homopolymer hydrogenated	ExxonMobil (COMPANY)
	TWA 8 hours: 5 mg/m ³ . Form: Aerosols (thoracic fraction).
1-dodecene, polymer with 1-octene,	ExxonMobil (COMPANY)
hydrogenated	TWA 8 hours: 5 mg/m ³ . Form: Aerosols (thoracic fraction).
1-dodecene, polymer with 1-decene,	ExxonMobil (COMPANY)
hydrogenated	TWA 8 hours: 5 mg/m ³ . Form: Aerosols (thoracic fraction).
kerosene	NIOSH REL (United States, 10/2020)
	TWA 10 hours: 100 mg/m ³ .
	ACGIH TLV (United States, 1/2024) [Kerosene] Absorbed through
	skin.
	TWA 8 hours: 200 mg/m ³ (as total hydrocarbon vapor).
	ExxonMobil (COMPANY) Absorbed through skin.
	TWA 8 hours: 5 mg/m ³ . Form: Stable Aerosol
	TWA 8 hours: 200 mg/m³. Form: Vapor

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

Appropriate engineering controls Environmental exposure controls		Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment
		will be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>es</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		

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Section 8. Exposure controls/personal protection

Hand protection	 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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.

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Orange
Odor	: Characteristic
Odor threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point or initial	: >260°C (>500°F)
boiling point and boiling range	
Flash point	: Open cup: >210°C (>410°F) [ASTM D-92]
Evaporation rate	: Not available.
Flammability	: Ignitable
Lower and upper explosion limit/flammability limit	: Lower: 0.9% Upper: 7%
Vapor pressure	: <0.1 mm Hg [20 °C]
Relative vapor density	: >2 [Air = 1]
Relative density	: 0.86
Solubility in water	: Negligible
Partition coefficient: n-	: >3.5
octanol/water	: Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	
Viscosity	: 68 cSt [40 °C] [ASTM D 445]
Particle characteristics	. Not applicable
Median particle size	: Not applicable. : -45°C
Pour point	45 C

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Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
Chemical stability	: The product is stable.	
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	: High energy sources of ignition. Excessive heat.	
Incompatible materials	: Strong oxidizers	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products sho not be produced.	ould

Section 11. Toxicological information

Information on toxicological effects **Acute toxicity Conclusion/Summary** Inhalation : Minimally Toxic. No end point data for material. Based on assessment of the components. Dermal Minimally Toxic. No end point data for material. Based on assessment of the components. Oral : Minimally Toxic. No end point data for material. Based on assessment of the components. Irritation/Corrosion **Conclusion/Summary** Skin : Negligible irritation to skin at ambient temperatures. No end point data for material. Based on assessment of the components. **Eves** : May cause mild, short-lasting discomfort to eyes. No end point data for material. Based on assessment of the components. Respiratory Negligible hazard at ambient/normal handling temperatures. No end point data for material. **Respiratory or skin sensitization Conclusion/Summary** Skin : Not expected to be a skin sensitizer. No end point data for material. Based on assessment of the components. Respiratory : Not expected to be a respiratory sensitizer. No end point data for material. **Mutagenicity Conclusion/Summary** : Not expected to be a germ cell mutagen. No end point data for material. Based on assessment of the components. **Carcinogenicity Conclusion/Summary** : Not expected to cause cancer. No end point data for material. Based on assessment of the components. **Classification Product/ingredient name OSHA** IARC NTP kerosene 3 **Reproductive toxicity** Conclusion/Summary : Not expected to be a reproductive toxicant. No end point data for material. Based on assessment of the components.

Specific target organ toxicity (single exposure)					
Conclusion/Summary	: Not expecte material.	ed to cause organ damag	e from a single exposur	e. No end point data f	or
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Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Product/ingredient name	e	Category	Target organs
MOBIL AGL - SYNTHETIC AVIATION GEAR LUBRICANT		Not applicable.	-
Conclusion/Summary : Not expected to cause organ point data for material. Base			nged or repeated exposure. No end the components.
Aspiration hazard			
Conclusion/Summary	: Not expected to be an aspiration hazard. Based on physico-chemical properties of material. Data available.		on physico-chemical properties of the
Other information			
Contains		pratory studies with the	icant health effects under conditions of same or similar materials. Not nimals and humans.

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.

<u>Toxicity</u>				
Product/ingredient name	Duration	Species	Result	
MOBIL AGL - SYNTHETIC AVIATION GEAR LUBRICANT	96 hours	Fish - Oncorhynchus mykiss	Acute LL50 1003 mg/l data for similar materials	
	21 days	daphnia - <i>Daphnia magna</i>	Chronic NOEL 1 mg/l data for similar materials	
Conclusion/Summary				
Acute toxicity	: Not expected to be harmful to aquatic organisms.			
Chronic toxicity	: Not expected to demonstrate chronic toxicity to aquatic organisms.			
Persistence and degradab	<u>ility</u>			
Not determined.				
Bioaccumulative potential				
Not determined.				
<u>Mobility in soil</u>				
Mobility	 Base oil component Expected to partition to sediment and wastewater solids. Low solubility and floats and is expected to migrate from water to the land. 			
Other ecological informati	<u>on</u>			

Section 13. Disposal considerations

Other adverse effects

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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,

: No known significant effects or critical hazards.

Section 13. Disposal considerations

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.

Section 14. Transport information

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	DOT Classification	TDG Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Label(s) / Marks				
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 4(a) proposed test rules: 1h-benzotriazole, methyl-
	TSCA 5(a)2 proposed significant new use rules: triphenyl phosphate
	TSCA 8(a) PAIR : naphthalene; octamethylcyclotetrasiloxane; decamethylcyclopentasiloxane; diphenylamine
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	Clean Water Act (CWA) 307: naphthalene; arsenic
	Clean Water Act (CWA) 311: naphthalene

TSCA 12(b) - Chemical export notification Not applicable.			
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed		
Clean Air Act Section 602 Class I Substances	: Not listed		
Clean Air Act Section 602 Class II Substances	: Not listed		
DEA List I Chemicals (Precursor Chemicals)	: Not listed		
DEA List II Chemicals (Essential Chemicals)	: Not listed		
<u>SARA 302/304</u>			
Composition/information on ingredients			

Section 15. Regulatory information

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification

: Not applicable.

SARA 313

This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

State regulations	
Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.
Illinois	: None of the components are listed.
California Prop. 65	·

California Prop. 65

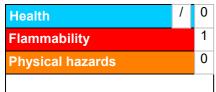
WARNING: Cancer - www.P65Warnings.ca.gov.

Inventory list

Australia inventory (AIIC)	: All components are listed or exempted.
Canada inventory (DSL-NDSL)	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.
Japan inventory (CSCL)	: At least one component is not listed.
Japan inventory (Industrial Safety and Health Act)	: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.
Philippines inventory (PICCS)	: Not determined.
Korea inventory (KECI)	: All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed or exempted.
United States inventory (TSCA 8b)	: All components are active or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

MOBIL AGL - SYNTHETIC AVIATION GEAR LUBRICANT

Section 16. Other information



Procedure used to derive the classification

Not classified.

New Jersey Right to Know Disclosure

	CAS #					
Lubricant						
<u>History</u>						
Date of issue/Date of revision	: 16 July 2024					
Date of previous issue	: 8 December 2023					
Version	: 1.01					
Key to abbreviations	 1.01 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations 					
References	: Not available.					
Indicates information the	at has changed from previously issued version.					

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Product code	:	20	1550404	010	_1232	2756	

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