SAFETY DATA SHEET

MOBIL 1 ESP X4 0W-40

ExonMobil

Section 1. Identification

SDS Internet Address	: www.sds.exxonmobil.com
FAX	: +612 9250-5742
Supplier General Contact	: +612 9250-5000
Product Technical Information	: 1300364169
24 Hour Emergency Telephone	: +61 2 9037 2994/1800 862 115 (CHEMTREC)
	ABN 17 000 032 128 29-33 Bourke Rd Alexandria New South Wales 2015 Australia
Supplier	: AMPOL AUSTRALIA PETROLEUM PTY LTD
Uses advised against	: This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above.
Identified uses	: Engine oil
Relevant identified uses of	the substance or mixture and uses advised against
Product description	: synthetic base stocks and additives
Product name	: MOBIL 1 ESP X4 0W-40

Section 2. Hazard(s) identification

Classification of the substance or mixture	:	Not classified.
Other hazards which do not result in classification	:	None known.
Nota	:	This material sho Section 1 without

: 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 and ingredient information

Substance/mixture

: Mixture

Ingredient name	% (w/w)	Identifiers
distillates, heavy, c18-50 - branched, cyclic and linear	≥30 - ≤60	CAS: 848301-69-9
1-decene, homopolymer hydrogenated	≥10 - ≤30	CAS: 68037-01-4
benzenamine, n-phenyl-, reaction products with 2,4,4-trimethylpentene	≤1	CAS: 68411-46-1
c14-16-18 alkyl phenol	≤0.3	Proprietary

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.

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Section 4. First-aid measures

Description of necess	sary first aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower 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/sympto	<u>ns</u>
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 medic	al 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.

See toxicological information (Section 11)

Protection of first-aiders

Section 5. Firefighting 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

: No action shall be taken involving any personal risk or without suitable training.

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Section 5. Firefighting 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 run-off 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.

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 spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised 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 spilt 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 material for cor	nta	inment 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

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). Avoid contact with used product.
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

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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
✓-decene, homopolymer hydrogenated	ExxonMobil (COMPANY)
	TWA 8 hours: 5 mg/m ³ . Form: Aerosols (thoracic fraction).
1-decene, homopolymer hydrogenated	ExxonMobil (COMPANY)
	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).
1-decene, polymer with 1-octene and	ExxonMobil (COMPANY)
1-dodecene, hydrogenated	TWA 8 hours: 5 mg/m ³ . Form: Aerosols (thoracic fraction).
distillates (petroleum), solvent-refined heavy	Safe Work Australia (Australia, 1/2024) [Oil mist, refined
paraffinic	mineral]
	TWA 8 hours: 5 mg/m ³ . Form: Mist.
	ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly
	and severely refined]
	TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction.
distillates (petroleum), solvent-dewaxed heavy	Safe Work Australia (Australia, 1/2024) [Oil mist, refined
paraffinic	mineral]
	TWA 8 hours: 5 mg/m ³ . Form: Mist. ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly
	and severely refined]
	TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction.

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

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	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 measure	<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.
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Section 8. Exposure controls and personal protection

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		
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.

Ap	pea	ran	се

Appearance						
Physical state	Liqui					
Colour	Brow					
Odour	Char	cteristic				
Odour threshold	Not a	ailable.				
рН	Not a	plicable.				
Melting point/freezing point	Not a	ailable.				
Boiling point or initial boiling point and boiling range	>315	>315.56°C (>600°F)				
Flash point	Oper	cup: 210°C (410°F) [ASTM D-92]			
Evaporation rate	Not a	ailable.				
Flammability	Ignita	le				
Lower and upper explosion limit/flammability limit		Lower: 0.9% Upper: 7%				
Vapour pressure	<0.1	nm Hg [20 °C]				
Relative vapour density	>2 [/	= 1]				
Relative density	0.84	[ASTM D1298]				
Solubility in water	Negl	ible				
Partition coefficient: n- octanol/water	>3.5	>3.5				
Auto-ignition temperature	Not a	ailable.				
Decomposition temperature	Not a	Not available.				
Viscosity	₱ cSt [40 °C] [ASTM D 445] 13.9 cSt [100 °C] [ASTM D 445]					
Particle characteristics						
Median particle size	Not a	plicable.				
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Section 9. Physical and chemical properties and safety characteristics

Particle characteristics	
Median particle size	: Not applicable.
Pour point	: -39°C [ASTM D97]

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 oxidisers
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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.				
Eyes	: 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 sensit	<u>ition</u>				
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.				
Reproductive toxicity					
Conclusion/Summary	: Not expected to be a reproductive toxicant. No end point data for material. Based on assessment of the components.	I			
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Conclusion/Summary

Section 11. Toxicological information

Specific target organ toxicity (single exposure)

: Not expected to cause organ damage from a single exposure. No end point data for material.

Specific target organ toxicity (repeated exposure)

Product/ingredient name		Category	Target organs
MOBIL 1 ESP X4 0W-40		Not applicable.	-
Conclusion/Summary		to cause organ damage from p material. Based on assessmer	prolonged or repeated exposure. No end at of the components.
Aspiration hazard			
Conclusion/Summary	: Not expected to be an aspiration hazard. Based on physico-chemical properties of the material. Data available.		
Other information			
Contains	: Synthetic base oils: Not expected to cause significant health effects under condition of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitising in test animals and humans. Benzenamin phenyl-, reaction products with 2,4,4-trimethylpentene (substituted DPA): Results a supplier's extended one-generation dietary study with 10-week pre-mating administration of substituted DPA included decreased body weight and body weig gains in parental females during gestation and lactation, decreased number of implantation sites and decreased mean litter size. A representative formulation containing substituted DPA was tested in a rat oral gavage reproductive/ developmental toxicity screening study (OECD TG 421) with a 10-week pre-matin administration period. Study results included decreased body weight and body we gain starting in pre-mating and continuing through gestation and lactation in parent females, decreased number of implantation sites and decreased number of sites and decreased number of implantation sites and body we gain starting in pre-mating and continuing through gestation and lactation in parent females, decreased number of implantation sites and decreasing trend in litter size 5 wt% classification threshold for the reproductive effects of substituted DPA was derived based on the NOAEL (50 mg/kg/day) and is consistent with the NOAEL in supplier's study.		with the same or similar materials. Not st animals and humans. Benzenamine, N ylpentene (substituted DPA): Results from or study with 10-week pre-mating ecreased body weight and body weight and lactation, decreased number of size. A representative formulation at oral gavage reproductive/ CD TG 421) with a 10-week pre-mating decreased body weight and body weight rough gestation and lactation in parental sites and decreasing trend in litter size. A uctive effects of substituted DPA was) and is consistent with the NOAEL in the
Product	oils did not pro Oils that are u following prop	oduce any carcinogenic effects ised in gasoline engines may b erties: Carcinogenic in animal	als tests. Used and unused diesel engine in chronic mouse skin painting studies. ecome hazardous and display the tests. Caused mutations in vitro. Possible clic aromatic compounds (PAC) from

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>	
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 degradability

Not determined.

Bioaccumulative potential

Not determined.

Mobility in soil

Section 12. Ecological information

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 information

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised 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 spilt 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, 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

	ADG	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for : Transport within user's premises: always transport in closed containers that are user 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 to IMO
- : Not applicable.

instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

- Not regulated.
- **Inventory list**
- Australia inventory (AIIC)
- Canada inventory (DSL-NDSL)
- : All components are listed or exempted.
- : All components are listed or exempted.

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Section 15. Regulatory information

: Restrictions Apply
: All components are listed or exempted.
: All components are listed or exempted.
: All components are listed or exempted.
: Restrictions Apply
: All components are listed or exempted.
: All components are listed or exempted.
: All components are active or exempted.

Section 16. Any other relevant information

<u>History</u>	
Date of issue/Date of revision	: 6 February 2025
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Version	: 1.03
Key to abbreviations	: ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = 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 SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Procedure used to derive the classification

Not classified.

References	: Not available.
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✓ Indicates information that has changed from previously issued version.

Product code	: 2015101010K4_P000001148
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