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Mobil DTE 797 Oil

1. Identification of the substance/preparation and of the company/undertaking

Trade Name:	Supplier:	Manufacturer:
Mobil DTE 797 Oil	ALFA LAVAL Tumba AB Hans Stahles väg	Exxonmobil Corporation 3225 Gallows rd.
Product Type:	SE-147 80 Tumba Sweden Tel: +46 8 53 06 50 00	Fairfax, VA 22037 Lubricants and specialties, tel: 800-662-4525, 800-443-9966 Fuels products, tel: 800-947-9147
Emergency number:		
24-hour Health and Safety Emergency (call collect): 609-737-4411 24-hour Transportation Emergency (Primary) Chemtrec: 800-424-9300 (Secondary): 281-834-3296		

2. Composition/information on ingredients

See section 16 for explanation to R-phrases.

Hazardous ingredient	Weight-%	CAS No	EC No.	Classification
Hydrocarbons and additives				

3. Hazard identification

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines.

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4. First-aid measures

First aid – Inhalation	Not expected to be a problem. However, if respiratory irritation, dizziness, nausea or un consciousness occurs due to excessive vapour or mist exposure, seek immediate medical advice. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation.
First aid – Skin contact	Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. 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, a physician as a surgical emergency should evaluate the individual immediately. 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.
First aid – Eye contact	Flush thoroughly with water. If irritation occurs, call a physician.
First aid – Ingestion	Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

5. Fire-fighting measures

Extinguishing media	Carbon dioxide, foam, dry chemical and water fog.
Special fire fighting procedures	Water or foam may cause frothing. Use water to keep fire exposed containers cold. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.
Flash point	>207 deg. C (405 deg. F) ASTM D-93.
Flammable limits	LEL: 0.9, UEL: 7.0 (approx. % vol. in air).
Protective equipment for fire fighting	For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
Combustion products	Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other decomposition products, in case of incomplete combustion.

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6. Accidental release measures

Notification procedures	Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free number (800)424-8802. In case of accident or road spill notify CHEMTREC (800)424-9300.
Procedures if material is released or spilled	LAND SPILL: shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in section 13. WATER SPILL: confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.
Environmental precautions	Prevent material from entering sewers, watercourses or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.
Personal precautions	See section 8.

7. Handling and storage

Handling	No special precautions are necessary beyond normal good hygiene practices. See section 8 for additional personal protection advice when handling this product. Prevent small spills and leakage to avoid slip hazard.
Storage	Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.

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8. Exposure controls/personal protection

Occupational exposure limits	When mists/aerosols can occur, the following are recommended: 5 mg/m ³ (as oil mist) ACGIH Threshold Limit Value (TLV), 10 mg/m ³ (as oil mist) ACGIH Short term Exposure Limit (STEL), 5 mg/m ³ (as oil mist) OSHA Permissible Exposure Limit (PEL).
Ventilation	If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.
Respiratory protection	If mists are generated, and/or when ventilation is not adequate, wear approved respirator.
Eye protection	If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.
Skin protection	Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practises should always be followed.

9. Physical and chemical properties

Appearance	Liquid.
Odour	Mild.
Colour	Straw.
Boiling point C (F)	>316 (600).
Flash point C (F)	>207 (405) ASTM D-93.
Vapour pressure mm Hg (20°C)	<0.1.
Vapour density	>2.0.
Relative density	0.86.
Solubility in water	Negligible.
Partition coefficient	>3.5.
Viscosity at 40°C, cSt	30.4.
Viscosity at 100°C, cSt	5.4.
Pour point C (F)	-7 (20).
DMSO extract IP-346, Wt %	<3, for mineral oil only.

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10. Stability and reactivity

Stability	Stable. Hazardous polymerisation will not occur.
Materials to avoid	Strong oxidizers.
Conditions to avoid	Extreme heat and high energy sources of ignition.
Hazardous decomposition products	Product does not decompose at ambient temperature.

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11. Toxicological information

Oral toxicity	Practically non-toxic (LD50: greater than 2000 mg/kg, rats). Based on testing of similar products and/or the components.
Dermal toxicity	Practically non-toxic (LD50: greater than 2000 mg/kg, rabbits). Based on testing of similar products and/or the components.
Inhalation toxicity	Practically non-toxic (LC50: greater than 5 mg/l, rats). Based on testing of similar products and/or the components.
Eye irritation	Practically non-irritating (Draize score: greater than 6 but 15 or less, rabbits). Based on testing of similar products and/or the components.
Skin irritation	Practically non-irritating (Primary irritation index: greater than 0.5 but less than 3, rabbits). Based on testing of similar products and/or the components.
Other acute toxicity data	Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.
Sub chronic toxicology	No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).
Reproductive toxicology	No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.
Chronic toxicology	Repeated and/or prolonged exposure may cause irritation to the skin, eye or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For mineral base oils: Base oils in this product are severely solvent refined and/or severely hydro treated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as Modified Ames test, IP-346, and/or other analytical methods. For synthetic oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.
Sensitization	Not expected to be sensitizing based on tests of this product, components or similar product.

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12. Ecological information

Environmental fate and effects	In the absence of specific environmental data for this product, this assessment is based on information for representative products.
Ecotoxicity	Available ecotoxicity data: LL50 >1000 mg/kg indicates that adverse effects to aquatic organisms are not expected from this product.
Mobility	When released into the environment, adsorption to sediment and soil will be the predominant behavior.
Persistence and degradability	This product is expected to be inherently biodegradable.
Bioaccumulative potential	Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal.

13. Disposal considerations

Disposal of product	Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal. The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.
Disposal of containers	Empty container warning: Empty containers retain residue (liquid/vapour) and can be dangerous. DO NOT PRESSURE, WELD, CUT, BRAZE, SOLDER, DRILL, GRIND or EXPOSE such containers to heat, flames, sparks or other sources of ignition, they may explode. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained properly bunged and returned to a drum reconditioner. All other containers should be disposed of in an appropriate environmental safe manner and in compliance with local regulations.

14. Transport information

Not regulated.

15. Regulatory information

When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

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16. Other information

Full text of R-phrases appearing in section 2

DISCLAIM OF RESPONSIBILITY

Alfa Laval provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is only a guide to the potential hazards of the product. All individuals working with or around the product should be properly trained. Persons coming into contact with the product must be capable of exercising their own independent judgment concerning the conditions or methods of handling, storage and usage of the product. Alfa Laval will not be responsible for claims, losses, or damages of any kind resulting from the information provided in this Safety Data Sheet or the use, handling, storage or disposal of the product. **Alfa Laval makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability or fitness for a particular purpose with respect to the information set out herein or the product to which the information refers.**