

Safety Data Sheet



Section 1 - Identification of the Material and Supplier

Product Name: Fluide LDS
Product Code: 0VO
Product Use: Power Steering Fluid
Supplier: Oil Intel Limited
Whakatu Road, Whakatu
Hastings 4172
NEW ZEALAND
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EMERGENCY

TELEPHONE NUMBER: 0800 734 607 (New Zealand)

Chemical Nature: The product is made from refined mineral base oils and synthetic oils (polyalphaolefins) in which the polycyclic aromatic hydrocarbons (PCA or PAH) content, measured by IP346, is less than 3%.

Creation Date: December 2013

This Version Issued: July 2018 and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature

Adverse Human Effects: Under normal conditions of use, the product presents no risk of serious intoxication.

Environmental Effects: Do not reject this product into the environment.

Physical and Chemical Hazards: No specific risk of fire or explosion under normal conditions of use.

Section 3 - Composition/Information on Ingredients

	CAS No	Conc, %	Symbol(s)	R-Phrases
Alkoxyated alkylamine		<0.3	C, N	R-22,34,50
Alkylphosphite		<0.3	Xi, N	R-
Homopolymer hydrogenated 1-decene	68649-11-6	<80	Xn	38,41,51/53 R-65

Ingredients

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764 766 in New Zealand and is available at all times. Have this MSDS with you when you call.

Inhalation: Inhalation of heavy concentrations of vapour, fumes or spray, may cause mild irritation of the throat. Transport the person into fresh air, keep warm and allow to rest.

Skin Contact: If the skin is exposed to high-pressure spray, the product may enter the human organism. In all such cases, the affected person must be taken to hospital, even if no sign of injury can be detected. Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water.

Eye Contact: Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes, and consult a specialist.

Ingestion: Possible risk of vomiting and diarrhoea. Do not induce vomiting and avoid the risk of aspiration into the respiratory tract. Give nothing to drink.

Aspiration: If the product is believed to have entered the lungs (in case of vomiting, for example), take the person to hospital for immediate care.

Advice for Doctor: Treat symptomatically.

Section 5 - Fire Fighting Measures

Fire & Explosion Hazards: Incomplete combustion and thermolysis produce potentially toxic gases such as CO and CO₂ along with various hydrocarbons, aldehydes and soot. These are highly dangerous if inhaled.

Extinguishing Media: Use foam, CO₂ or powder. Do not use a solid water stream as it may scatter and spread fire.

Fire Fighting: An insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

Section 6 - Accidental Release Measures

Accidental Release: ON SOIL: Surfaces on which the product has been spilled may become slippery. Do not allow the product to enter sewers or rivers or contaminate the soil. Recover with mechanical means such as pumps and skimmers. Contain and collect the spilled product with sand or any other inert absorbent material. ON WATER: Use floating absorbent material and then recover by mechanical means. If the product is spilled in a river or in the sewers, notify the authorities of the possible presence of floating items.

Section 7 - Handling and Storage

Handling: Ventilate extensively if the formation of vapours, fumes, mists or aerosol is a risk. Make all the necessary arrangements in order to reduce exposure risk, notably to products in use or to wastes. Keep away from combustible substances; keep away from food and beverages. Empty containers may contain flammable or explosive vapours. There is a fire hazard associated with rags, paper or any other material used to remove spills which become soaked with product. Avoid accumulation of these; they are to be disposed of safely after use.

Avoid static electricity build up with connection to earth. Set up machinery and equipment so as to avoid the risk of accidental spills or splashes onto hot machine parts and electrical contacts (on joint failure, for example). Oil leaks in a pressure circuit resulting in a fine inflammable spray (the flammability limit for oil mist is depressed when concentrations of about 45g/m³ are reached).

Storage: Make the necessary arrangements to prevent water and soil pollution. Store at room temperature, protected against contact with water and moisture, and away from any source of ignition. Keep containers closed when not in use. Do not store exposed to the elements. Dangerous reactions with strong oxidising agents. Use only hydrocarbon-resistant containers, joint, pipes etc. Keep in original container if possible. Otherwise, transfer all indications on the regulatory label to the new container.

Section 8 - Exposure Controls and Personal Protection

Respiratory Equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS221**

Exposure Limits: Oil mist: 10mg/m³ for 15 minutes. Oil mist: 5mg/m³ for 8 hours.

Technical Measures: Use the product in a properly ventilated atmosphere. When working in enclosed areas (tanks, reservoirs etc.), make sure that the atmosphere is not suffocating and/or wear recommend equipment.

Eye Protection: Goggles, in case of splashing.

Skin and Body Protection: As required, wear a face mask, hydrocarbon-proof clothing, and safety boots (when handling drums). Don't wear rings, watches or other jewellery which will be able to hold the product and may give rise to some skin diseases.

Industrial Hygiene: Avoid prolonged and repeated contact with the skin, particularly with regards to used or waste oil. Immediately remove all soiled or stained clothing. If the product comes into contact with the skin, wash the affected area immediately and copiously with soap and water. Don't use abrasives, solvents or fuels. Do not use cloths stained with the product to dry hands. Don't put the product-soaked rags in the pockets of working clothes. Do not eat, drink or smoke while handling the product.

Section 9 - Physical and Chemical Properties:

Physical Description & Colour: Orange liquid

Odour: Characteristic odour

Flashpoint: >145°C (ASTM D 93)

Autoignition Temperature: >250°C (ASTM E 659-78) This temperature may be significantly lower under particular conditions (oxidation of high surface areas).

Density: 820kg/m³ at 15°C

Kinematic Viscosity at 100°C: 6mm²/s

Coeff of Water/Oil Distribution: Log Pow >6 at 20°C

Section 10 - Stability and Reactivity

Reactivity: The product is stable under normal storage, handling and use conditions.

Incompatible Materials: Strong oxidising agents.

Fire Decomposition: Incomplete combustion and thermolysis can produce toxic gases such as CO and CO₂, various hydrocarbons, aldehydes and soot.

Conditions to Avoid: Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

Section 11 - Toxicological Information

Skin Contact: Risk is improbable under normal conditions of use. If the skin is exposed to high-pressure spray, the product may enter the human organism. In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected. Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing.

Inhalation: Risk is improbable under normal conditions of use, inhalation of important concentrations of vapour or aerosols may cause irritation of the upper respiratory tract.

Ingestion: In case of ingestion of small quantities, no important effect observed, in case of ingestion of larger amounts; abdominal pain and diarrhoea.

Sensitization: To our knowledge, the product doesn't cause aggravated sensitivity.

Section 12 - Ecological Information

Ecotoxicity: The virgin product is considered to present no danger for land-growing organisms. It is considered to present a little danger for aquatic life. No information is available for used product.

Persistence and Degradability: No experimental information about the finished product. However the 'mineral oil' fraction of the new product is intrinsically biodegradable. Some components of the product may not be biodegradable.

Mobility:

- **Air:** There is a slow loss by evaporation.
 - **Soil:** Given its physical and chemical characteristics, the product generally shows little mobility in the ground.
 - **Water:** The product is insoluble; it spread on the surface of the water.
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Section 13 - Disposal Considerations

Disposal: Dispose of in a safe manner in accordance with local regulations. If need be, collection by an authorised waste contractor and regeneration or incineration in an approved installation.

Waste Class: 13 01 10

Section 14 - Transport Information

Section 15 - Regulatory Information

New Zealand Regulatory Information:

HSNO Approval Number HSR002605

HSNO Group Standard Lubricants (Low Hazard) Group Standard 2006

Issued by: Total Oil Australia Pty Ltd

Phone: +61 (03) 9861 8668

Poisons Information Centre: 13 11 26 from anywhere in Australia, 0800 764 766 in New Zealand

HSNO Classification	6.3 - SKIN IRRITATION - Category B
	6.4 - EYE IRRITATION - Category A (Irritant)
	9.1 - AQUATIC ECOTOXICITY - Category D

Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.
IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS
OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011) Copyright © Kilford & Kilford Pty Ltd, October, 2015. <http://www.kilford.com.au> Phone (02)9251 4532