



SAFETY DATA SHEET

According to Safe Work Australia Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals

SDS # : 30459

FLUIDE LDS

Issuing date: 2016-12-30

Revision Date: 2016-12-30

Version 1

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product identifier

Product name FLUIDE LDS

Other means of identification

Number 0VO
Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Transmission fluid.

Details of the supplier of the safety data sheet

Supplier Total Oil Australia Pty Ltd (ABN 15 149 501 922)
Suite 2, 415 Riversdale Road, Hawthorn East
Victoria 3123
AUSTRALIA
Tel: +61 (03)9861 8600
Fax: +61 (03) 9882 0447

For further information, please contact:

Contact Point service HSE
E-mail Address ms.ap-sds@total.com

Emergency telephone

International: CHEMTREC +1 703 527 3887 (collect calls accepted)
1800 033 111 (Australia)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as hazardous according to Australia Model Work Health and Safety Regulations

Aspiration toxicity - Category 1
Acute toxicity - Inhalation (Dusts/Mists) - Category 4

GHS Label elements, including precautionary statements

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Signal Word

DANGER**Hazard Statements**

H304 - May be fatal if swallowed and enters airways

H332 - Harmful if inhaled

Precautionary Statements - Prevention

- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Do NOT induce vomiting

Precautionary Statements - Storage

- Store locked up

Precautionary Statements - Disposal

- Dispose of contents/ container to an approved waste disposal plant

Other hazards which do not result in classification**Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery

Environmental properties

Should not be released into the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC-No	Weight %
Hydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene	^	-	80-<90
Alkoxylated long chain alkylamine	^	-	0.1-<1
Methyl methacrylate	80-62-6	201-297-1	0.1-<1

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

4. FIRST AID MEASURES**Description of necessary first-aid measures****General advice**

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

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Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.
Inhalation	Move to fresh air.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Most important symptoms/effects, acute and delayed

Skin contact	Not classified. May produce an allergic reaction.
Eye contact	Not classified.
Inhalation	Harmful if inhaled.
Ingestion	May be fatal if swallowed and enters airways.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Carbon dioxide (CO₂). ABC powder. Foam. Water spray or fog.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Advice for fire-fighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit.

Other information

Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Environmental precautions

General Information Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for cleaning up Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Other information

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and at the end of workday. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep out of reach of children. Keep away from food, drink and animal feedingstuffs. Keep in a bonded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

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Materials to Avoid Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Chemical Name	Australia	ACGIH TLV	The United Kingdom	Germany
Methyl methacrylate 80-62-6	STEL 100 ppm STEL 416 mg/m ³ TWA 50 ppm TWA 208 mg/m ³	STEL 100 ppm TWA 50 ppm	STEL 100 ppm STEL 416 mg/m ³ TWA 50 ppm TWA 208 mg/m ³	AGW 50 ppm AGW 210 mg/m ³

Appropriate engineering controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment (PPE)

General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P2. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

Eye Protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Extended and repeated contacts with skin can cause skin ailments which may be aggravated by minor injuries or contact with soiled clothing.

Hand Protection

Hydrocarbon-proof gloves: Neoprene gloves, Nitrile rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency.

9. PHYSICAL AND CHEMICAL PROPERTIES

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9.1. Information on basic physical and chemical properties

Appearance		limpid	
Color		orange	
Physical State @20°C		liquid	
Odor		Characteristic	
Odor Threshold		No information available	
Property	Values	Remarks	Method
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range		No information available	
Flash point	> 150 °C > 302 °F		ASTM D 93 ASTM D 93
Evaporation rate		No information available	
Flammability Limits in Air			
upper		No information available	
Lower		No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	0.817 - 0.827	@ 15 °C	ISO 12185
Density	817 - 827 kg/m ³	@ 15 °C	ISO 12185
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature	> 250 °C > 482 °F		ASTM E 659 ASTM E 659
Decomposition temperature		No information available	
Viscosity, kinematic	17 - 19 mm ² /s 5.75 - 6.15 mm ² /s	@ 40 °C @ 100 °C	ISO 3104 ISO 3104
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	No information available		

9.2. Other information

Freezing Point		No information available
Pour point	-50 °C	ISO 3016

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to Avoid	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.
Incompatible materials	Strong oxidizing agents.

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Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Harmful if inhaled.
Ingestion	May be fatal if swallowed and enters airways.
Skin contact	Not classified. May produce an allergic reaction.
Eye contact	Not classified.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity - Product Information

Oral Not classified.
ATEmix (oral) 5,779.00 mg/kg
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

Dermal Not classified.
ATEmix (dermal) 5,293.00 mg/kg
 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

Inhalation Harmful if inhaled
ATEmix (inhalation-gas) > 20,000.00 ppm
 86.534 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
ATEmix (inhalation-vapor) 71.10 mg/l
 81.23 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
ATEmix (inhalation-dust/mist) 1.70 mg/l
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene ^	LD50 >5000 mg/kg bw (rat-OECD 401)	LD50 >2000 mg/kg bw (rat-OECD 402)	LC50 (4h) 1170 mg/m ³ (aerosol rat-OECD 403) LC50 (4h) 1400 - 2000 mg/m ³ (aerosol rat-OECD 403) LC50 (4h) 900 - 1400 mg/m ³ (aerosol rat-OECD 403)
Alkoxylated long chain alkylamine ^	LD50 1350 mg/kg (Rat)		LC50 (1h) 220 ppm (Rat - Vapor)
Methyl methacrylate	LD50 > 5000 mg/kg (Rat)	LD50 > 5000 mg/kg (Rabbit)	LD50(4h) 29.8 mg/kg (Rat -

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80-62-6			Vapour)
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Skin corrosion/irritation	Not classified.
Serious eye damage/eye irritation	Not classified.
Sensitization	Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Mutagenicity	This product is not classified as mutagenic. Contains no ingredient listed as a mutagen.
Germ Cell Mutagenicity	This product is not classified as mutagenic
Reproductive toxicity	This product does not present any known or suspected reproductive hazards.
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration Hazard	May be fatal if swallowed and enters airways.
Other adverse effects	No information available.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Not classified.

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Hydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene ^	EL50 (72h) > 1000 mg/l (Selenastrum capricornutum)	LL50 (96h) > 5056 mg/l (Americamysis bahia) EL50 (48h) >1000 mg/l (Daphnia magna)	EL50 (96h) >1000 mg/l (Pseudokirchneriella subcapitata) LL50 (96h) >1000 mg/l (Oncorhynchus mykiss) LL50 (96h) >5003 mg/l (Cyprinodon variegatus - OECD 203)	
Methyl methacrylate 80-62-6	EC50 (72h) > 110 mg/l (Selenastrum capricornutum)	EC50 (48h) = 69 mg/L Daphnia magna	LC50 (96h) > 79 mg/l (Oncorhynchus mykiss)	

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Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Hydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene ^		EL50 (21d) > 1000 mg/l (Daphnia magna - OECD 211) LL50 (21d) > 1000 mg/l (Daphnia magna - OECD 211) NOEL (21d) 1000 mg/l (Daphnia magna - OECD 211) NOELR (21d) > 1000 mg/l (Daphnia magna)	NOEL (96h) >5003 mg/l (Cyprinodon variegatus - OECD 203)	

Effects on terrestrial organisms No information available.**Persistence and degradability**

No information available.

Bioaccumulative potential**Product Information** No information available.**logPow** No information available**Component Information**

Chemical Name	log Pow
Methyl methacrylate - 80-62-6	1.38

Mobility

Soil Given its physical and chemical characteristics, the product generally shows low soil mobility.

Air Loss by evaporation is limited.

Water Insoluble. The product spreads on the surface of the water.

Other adverse effects**General Information** No information available.**13. DISPOSAL CONSIDERATIONS****Waste from Residues / Unused Products** If recycling is not practicable, dispose of in compliance with local regulations.

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Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other information Refer to section 8 for safety and protective measures for disposal personnel.

14. TRANSPORT INFORMATIONADG (Australia) Not regulatedADR/RID Not regulatedIMDG/IMO Not regulatedICAO/IATA Not regulatedADN Not regulated**15. REGULATORY INFORMATION****National regulatory information**

Classified as hazardous according to Australia Model Work Health and Safety Regulations

Chemical Name	Standard for the Uniform Scheduling of Drugs and Poisons
Methyl methacrylate - 80-62-6	Schedule 6

National pollutant inventory Subject to reporting requirement

Chemical Name

Methyl methacrylate - 80-62-6

Australia - National Pollutant Inventory (NPI) Substance List

10 tonne/yr Threshold category 1

16. OTHER INFORMATION

Issuing date: 2016-12-30
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Revision Note No information available.

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

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bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

ADG = Australian Dangerous Goods

Legend:

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S* - Skin notation

Ceiling:	Maximum limit value	TWA:	Time weighted average
STEL:	Short term exposure limit	*	Skin designation
+	Sensitizer	**	Hazard Designation
C	Carcinogen		

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet