

SAFETY DATA SHEET

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

SDS #: 090161 TRAXIUM DUAL 9 FE 75W-90

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

Product identifier

Product name TRAXIUM DUAL 9 FE 75W-90

Other means of identification

Number TSB Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Transmission fluid.

Uses advised against Do not use for any purpose other than the one for which it is intended.

Details of the supplier of the safety data sheet

Supplier Total Oil Australia Pty Ltd (ABN 15 149 501 922)

Level 23, 600 Bourke Street, Melbourne,

Victoria 3000 AUSTRALIA Tel: +61 (3) 9861 8600 Email: lubricants.au@total.com

For further information, please contact:

Contact Point HSE

E-mail Address ms.ap-sds@total.com

Emergency telephone

Australia: +61 2 8014 4558 Asia-Pacific: +65 3158 1074

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not classified as hazardous according to Australia Model Work Health and Safety Regulations

GHS Label elements, including precautionary statements

Signal word None

Hazard Statements



None

Other hazards which do not result in classification

Physical-Chemical Properties Environmental properties

Contaminated surfaces will be extremely slippery.

The product may form an oil film on the water surface that may stop the oxygen exchange.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature The product is made from refined mineral base oils and synthetic oils.

Chemical Name	CAS-No	EC-No	Weight %
Dec-1-ene, trimers, hydrogenated	157707-86-3	500-393-3	50-<60
Polysulfides, di-tert-Bu	68937-96-2	273-103-3	3-<5
Reaction products of	^	931-384-6	1-<2.5
4-methyl-2-pentanol and diphosphorus			
pentasulfide, propoxylated, esterified			
with diphosphorus pentaoxide, and			
salted by amines, C12-14- tert-alkyl			
O,O,O-triphenyl phosphorothioate	597-82-0	209-909-9	0.3-<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.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may

cause skin damage. Take victim immediately to hospital.

Inhalation Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, give artificial respiration.

Ingestion Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician or Poison Control Center immediately.

Protection of First-aiders First aider needs to protect himself. See Section 8 for more detail. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.



SDS #: 090161 TRAXIUM DUAL 9 FE 75W-90

Most important symptoms/effects, acute and delayed

Skin contact Not classified based on available data. May produce an allergic reaction. High pressure

injection of the products under the skin may have very serious consequences even though

no symptom or injury may be apparent.

Eye contact Not classified based on available data.

Inhalation Not classified based on available data. Inhalation of vapors in high concentration may

cause irritation of respiratory system.

Ingestion Not classified based on available data. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

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

Notes to physician Treat symptomatically.

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. Combustion products include sulphur oxides (SO2 and SO3) and Hydrogen sulphide H2S, Mercaptans,

Nitrogen oxides (NOx), Phosphorous oxides, Silicon dioxide.

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.

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



Revision Date: 2020-02-18 Issuing date: 2020-02-18 Version 1

sources of ignition.

Environmental precautions

General Information Do not allow material to contaminate ground water system. Prevent entry into waterways,

sewers, basements or confined areas. Local authorities should be advised if significant

spillages cannot be contained.

Methods and material for containment and cleaning up

Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or **Methods for containment**

similar non-combustible materials.

Dispose of contents/container in accordance with local regulation. In case of soil Methods for cleaning up

contamination, remove contaminated soil for remediation or disposal, in accordance with

local regulations.

Other information

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

For personal protection see section 8. Use only in well-ventilated areas. Do not breathe Advice on safe handling

vapors or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges.

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of Hygiene measures

> contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. 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 away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. 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. Store at room temperature. Protect from moisture.

Materials to Avoid Strong oxidizing agents.



SDS #: 090161 TRAXIUM DUAL 9 FE 75W-90

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH

(TLV) TWA 5 mg/m³ (highly refined)

Appropriate engineering controls

Engineering Measures Apply technical measures to comply with the occupational exposure limits. Ensure

adequate ventilation, especially in confined areas. 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)

Personal Protective Equipment

General Information Protective engineering solutions should be implemented and in use before personal

protective equipment is considered. The personal protective equipment (PPE)

recommendations apply to the product ITSELF. In case of mixtures or formulations, it is

suggested that you contact the relevant PPE suppliers.

Respiratory protectionNone under normal use conditions. 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/P1. Warning! filters have a limited use duration. 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. EN 166.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Type

4/6.

Hand Protection Hydrocarbon-proof gloves: Fluorinated rubber, 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. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is

used, such as the danger of cuts, abrasion, and the contact time.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance limpid

Color yellow To amber

Physical State @20°C liquid

Odor Characteristic

Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks</u> <u>Method</u>

pH Not applicable Melting point/range Not applicable

Boiling point/boiling range No information available

 Flash point
 190 °C
 ASTM D 92

 374 °F
 ASTM D 92

Evaporation rateNo information available

Flammability Limits in Air

upperNo information availableLowerNo information availableVapor PressureNo information availableVapor densityNo information available

 Relative density
 0.866
 @ 15 °C
 DIN 51757 D

 Density
 866 kg/m³
 @ 15 °C
 DIN 51757 D

Water solubility Insoluble

Solubility in other solvents

logPow

No information available
No information available
No information available
No information available

Decomposition temperatureNo information available

Viscosity, kinematic 101 mm2/s @ 40 °C ASTM D 445
Explosive properties Not explosive

Oxidizing Properties Not applicable

Possibility of hazardous reactions None under normal processing

9.2. Other information

Freezing Point No information available

10. STABILITY AND REACTIVITY

Reactivity None under normal processing.

<u>Chemical stability</u> Stable under recommended storage conditions.

<u>Possibility of hazardous reactions</u> No dangerous reaction known under conditions of normal use.

<u>Conditions to avoid</u> Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat

and sparks.



<u>Incompatible materials</u> Strong oxidizing agents.

<u>Hazardous Decomposition Products</u> Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Combustion products include sulphur oxides (SO2 and SO3) and Hydrogen sulphide H2S, Mercaptans,

Nitrogen oxides (NOx), Phosphorous oxides, Silicon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Not classified based on available data. Inhalation of vapors in high concentration may

cause irritation of respiratory system.

Ingestion Not classified based on available data. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

Skin contact Not classified based on available data. May produce an allergic reaction. High pressure

injection of the products under the skin may have very serious consequences even though

no symptom or injury may be apparent.

Eye contact Not classified based on available data.

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 based on available data.

ATEmix (oral) > 5,000.00 mg/kg

4.6 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

Dermal Not classified based on available data.

ATEmix (dermal) > 5,000.00 mg/kg

4.6 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

Inhalation Not classified based on available data

ATEmix (inhalation-gas) > 20,000.00 ppm

63.49 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

ATEmix (inhalation-vapor) 387.00 mg/l

61.49 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

ATEmix (inhalation-dust/mist) 28.70 mg/l

55.59 % 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
Dec-1-ene, trimers, hydrogenated	LD50 > 5000 mg/kg (rat - OECD	LD50 > 3000 mg/kg (rat - OECD	LC50 (4h) 1.17 mg/l (rat - vapour -



157707-86-3	401)	402)	OECD 403)
			LC50 (4h) 0.9 mg/l (rat - vapour -
			OECD 403)
			LC50 (4h) 1.4 mg/l (rat - vapour -
			OECD 403)
Reaction products of	LD50 2000 mg/kg bw (Rat - OECD		-
4-methyl-2-pentanol and	TG 401)		
diphosphorus pentasulfide,	·		
propoxylated, esterified with			
diphosphorus pentaoxide, and			
salted by amines, C12-14- tert-alkyl			
٨			

Skin corrosion/irritationNot classified based on available data.

Serious eye damage/eye irritation Not classified based on available data. The supplier of one or more of the components

contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not

required.

Sensitization Not classified based on available data. Contains sensitizer(s). May produce an allergic

reaction. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms

that at the concentration used, classification is not required.

Carcinogenicity Not classified based on available data.

Germ Cell Mutagenicity Not classified based on available data

Reproductive toxicity

Not classified based on available data. Contains toxic substance(s) listed as toxic to

reproduction.

Target Organ Effects (STOT) None known

STOT - single exposure Not classified based on available data

STOT - repeated exposure Not classified based on available data

Aspiration hazard Not classified based on available data.

Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated

exposures (contact with contaminated clothing).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not classified based on available data.

Acute aquatic toxicity - Product Information



TRAXIUM DUAL 9 FE 75W-90

Issuing date: 2020-02-18 **Revision Date:** 2020-02-18 **Version** 1

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
Dec-1-ene, trimers, hydrogenated 157707-86-3	EL50 (72h) > 1000 mg/l (Scenedesmus capricornutum - OECD 201) NOELR (72h) 1000 mg/l (Scenedesmus capricornutum - OECD 201)	EL50 (48h) > 150 mg/l (Daphnia magna)	LL50 (96h) > 1000 mg/l (Oncorhynchus mykiss)	microorganisms
Polysulfides, di-tert-Bu 68937-96-2	EC50 (72h) > 100 mg/l (Alga)	EC50 (48h) 63 mg/l (Daphnia magna)		
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	Pseudokirchnerella subcapitata - OECD 201) EC50 (96h) 15 mg/l (Pseudokirchnerella subcapitata - OECD 201) EC50 (96h) 6.4 mg/L (Selenastrum capricornutum- OECD TG 201) (ECHA CHEM)	EL50 (48h) ca. 91.4 mg/l (Daphnia magna - OECD 202)	LL50 (96h) ca. 24 mg/l (Oncorhynchus mykiss - OECD 203)	
O,O,O-triphenyl phosphorothioate 597-82-0	EC50(72h) >100 mg/l (Scenedesmus quadricauda)	EC50(48h) >100 mg/l (Daphnia Magna)	LC50(96h) >100 mg/l (Zebra Fish)	EC50(3h) >100 mg/l (sludge)

Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic invertebrates	-	microorganisms
Dec-1-ene, trimers,	NOELR (72h) 1000 mg/l	NOELR (21d) 125 mg/l	NOELR (96h) 1000 mg/l	
hydrogenated	(Scenedesmus	(Daphnia magna - OECD	(Oncorhynchus mykiss)	
157707-86-3	capricornutum - OECD 201)	211)		
		NOELR (96h) 5002 ppm		
		(Americamysis bahia -		
		OECD 202)		
Reaction products of	NOEC (96h) 1.7 mg/l	EL50 (21d) 0.91 mg/l	-	EC50 (3h) ca. 2433 mg/L
4-methyl-2-pentanol and	(Pseudokirchnerella	(Daphnia magna - OECD		(Activated Sludge, domestic
diphosphorus pentasulfide,	subcapitata - OECD 201)	211)		- OECD TG 209) (ECHA
propoxylated, esterified with	, , , ,	NOEL (21d) 0.12 mg/l		CHEM)
diphosphorus pentaoxide,	(Pseudokirchnerella	(Daphnia magna - OECD		
and salted by amines,	subcapitata - OECD 201)	211)		
C12-14- tert-alkyl		EL50 (21d) 0.66 mg/l		
^		(Daphnia magna - OECD		
		211)		
O,O,O-triphenyl		NOEC(21d) >5.5 mg/l		
phosphorothioate		(Daphnia Magna)		



597-82-0

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

Compensite intermedian				
Chemical Name	log Pow			
Polysulfides, di-tert-Bu - 68937-96-2	6			
Reaction products of 4-methyl-2-pentanol and diphosphorus	< 0.30 to >7.10 (OECD TG 117) (ECHA CHEM)			
pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and				
salted by amines, C12-14- tert-alkyl - ^				

Mobility

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

mobility.

Air Loss by evaporation is limited.

Water The product is insoluble and floats on water.

Other adverse effects

General Information No information available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused

Products

Should not be released into the environment. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations. Where possible

recycling is preferred to disposal or incineration.

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 INFORMATION

ADG (Australia)

Not regulated



Issuing date: 2020-02-18 **Revision Date:** 2020-02-18 **Version** 1

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories All the substances contained in this product are listed or exempted from listing in the

following inventories:

U.S.A. (TSCA)
Australia (AICS)
Philippines (PICCS)
Japan (ENCS)
Korea (KECL)
China (IECSC)

National regulatory information

Not classified as hazardous according to Australia Model Work Health and Safety Regulations

16. OTHER INFORMATION

 Issuing date:
 2020-02-18

 Revision Date:
 2020-02-18

Revision Note No information available.

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

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