

SAFETY DATA SHEET

1 Product and Company Identification

Product identifier	Pure Drive Hydraulic Fluid		
Product type	Polyalkylene Glycol / Polyether Polyol / HFDU-15 PG / HEPG-15		
Recommended use	Hydraulic Fluid		
Recommended restrictions	None known		
Manufacturer information	Trojan Technologies 3020 Gore Road London, ON N5V 4T7 CA Phone: 519-457-3400 Phone: 888-220-6118	Australian supplier	Alastair MacNab Trojan Technologies Group ULC 96 Ricketts Road MOUNT WAVERLY VIC 3149
CANUTEC	Phone: 613-996-6666	Australian emergency #	Phone: 011 03 97283953 Mobile: 011 0488 080069

2 Hazards Identification

Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	Not classified
WHMIS 2015 defined hazards	Not classified
Label elements	
Hazard symbol	None
Signal word	None
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	None known
Supplemental information	None

3 Composition/Information on Ingredients

Chemical Name	CAS#	EC#	Range% by Weight
Polyalkylene Glycol	Proprietary	Proprietary	90-100%

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4 First Aid Measures

Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat patient symptomatically.
General Information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5 Fire Fighting Measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	None
Specific hazards arising from the chemical	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion Products	May include and are not limited to: Mercury, metallic oxides.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, refer Section 8 .
Methods and materials for containment and clean up	<p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p>
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, refer Section 13 .

7 Handling and Storage

Precautions for safe handling	Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep out of reach of children.

8 Exposure Controls/Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment, Eye/face protection	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Impervious gloves. Confirm with reputable supplier first.
Other	Wear suitable protective clothing. As required by employer code.
Respiratory protection	Not normally required
Thermal hazards	Not applicable
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

9 Physical and Chemical Properties

Appearance	Clear green liquid	
Odor	Mild odor	
Odor Threshold	Not Determined	
pH	Not Applicable	Method: ASTM D1293
Melting Point / Freezing Point	Pour Point -62°C (-80°F)	
Initial Boiling Point	Not determined	
Flash Point	123°C (253°F)	Method: ASTM D92
Evaporation Rate	Not determined	
Flammability	Not flammable	
Upper/Lower Explosive Limits	Not determined	
Vapor Pressure	Not determined	Method: ASTM D5482
Vapor Density	Not determined	
Specific Gravity (15°C / 4°C)	0.99	Method: ASTM D4052
Solubility in Water	Complete	
Partition Coefficient	log Pow < 3	Method: ASTM E1147
Autoignition Temperature	Not determined	Method: ASTM E659
Decomposition Temperature	Not determined	Method: ASTM E2550
Viscosity	14.0 cSt @ 40°C	Method: ASTM D445

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Possibility of hazardous reactions	None
Chemical stability	Stable
Conditions to avoid	Keep away from extreme heat
Incompatible materials	Keep away from chlorine, fluorine, and other strong oxidizers
Hazardous decomposition Products	None identified

10 Stability and Reactivity

Possibility of hazardous reactions	None
Chemical stability	Stable
Conditions to avoid	Keep away from extreme heat
Incompatible materials	Keep away from chlorine, fluorine, and other strong oxidizers
Hazardous decomposition products	None identified

11 Toxicological Information

Primary Routes of Exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure:	
Ingestion	Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
Inhalation	
Skin contact	May cause irritation.
Eye contact	May cause irritation.
Acute Exposure:	
Dermal	For similar materials: LD ₅₀ , rabbit >20,000 mg/kg No data available to indicate product or components may be a dermal toxicity or sensitization hazard.
Inhalation	For similar materials: LC50, 4h, aerosol, rat, male >5.01 mg/l No data available to indicate product or components may be an inhalation toxicity or sensitization hazard.
Ingestion	For similar materials: LD ₅₀ , rat > 7,000 mg/kg
Chronic Exposure:	
Eye	Prolonged or repeated contact may cause eye irritation.
Dermal	Prolonged or repeated contact may cause eye irritation.
Carcinogenicity	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

12 Ecological Information

Environmental Toxicity:

Ecotoxicity:	EPA classification - "practically non-toxic"
Fish Toxicity:	LC ₅₀ = 100 - 1000 mg/L based upon data from similar products.
Invertebrate Toxicity:	LC ₅₀ = 100 - 1000 mg/L based upon data from similar products.
Vascular Plant Toxicity:	No ecological doubt. Not determined.
Algae Toxicity:	No ecological doubt. Not determined.
Bacteria Toxicity:	No ecological doubt. Not determined.

Environmental Fate:

Persistence and Degradability:	80% OECD301B 28d based upon data from ingredients.
Bioaccumulative Potential:	Nil
Mobility in Soil:	Not determined
Other Adverse Effects:	None identified
Water Hazard Class:	WGK = 1 - Low Hazard to waters

13 Disposal Information

Disposal instructions	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. This material, if discarded, should be considered a European non-hazardous waste in accordance with Directive 91/689/EC.
Local disposal regulations	Do not empty into drains; dispose of this material and its container as non-hazardous waste in accordance with all applicable regulations and in accordance with all applicable regulations.
Hazardous waste code	European Waste Catalog Code (EWC-code): 13 01 12
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14 Transport Information

UN number	Not regulated
UN Proper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Package Group	Not regulated
Marine Pollutant	No
Special Precautions	None

15 Regulatory Information

-- Global Chemical Inventories --

USA	All components of this material are on the US TSCA Inventory or are exempt.
EEC	All components are in compliance with the EC 7 th Amendment Directive 92/32/EEC.
Canada	All components of this material are DSL listed or are exempt.
Japan	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
Korea	All components are in compliance in Korea.

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Philippines

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

China

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

Chemical Substance Control Laws:

EPA 550-B-01-003

This product does not contain greater than 1.0% of any chemical substances (0.1% for carcinogens) listed on the Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Clean Air Act Section 112(r): EPCRA Section 302 Extremely Hazardous Substances, CERCLA Hazardous Substances, EPCRA Section 313 Toxic Chemicals, CAA 112(r) Regulated Chemicals For Accidental Release Prevention.

SARA 311 Classifications

Fire Hazard No

Sudden Release of Pressure Hazard No

Reactive Hazard No

Immediate (Acute) Hazard No

Delayed (Chronic) Hazard No

Right-to-Know Regulations

Cal. Prop. 65

This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, American Chemical Technologies does not routinely analyze its products for impurities which may be such chemicals.

Other / International Regulation:

Harmonized Tariff Schedule Number 3403.99.0000

16 Other Information

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

NFPA Code

(Health: 1)
(Flammability: 0)
(Reactivity: 0)

Issue Date

22-January-2018

Version #

01

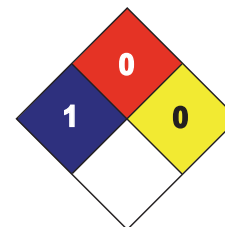
Effective Date

22-January-2018

Prepared by

Manufacturer Personnel

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0



Other Information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.