



SAFETY DATA SHEET

Page 1 of 10

Issue Date: 30 September 2020

Fire Resistant Hydraulic Fluid 620

Version: 1

Product Identifier: Fire Resistant Hydraulic Fluid 620

1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY: Hi-Tec Oil Traders Pty Ltd. (ABN 28 053 837 362)

ADDRESS: PO Box 322 Castle Hill NSW 1765
5 Tarlington Place, Smithfield NSW 2164

TELEPHONE NUMBER: 1300 796 009

FAX NUMBER: (02) 9604 1611

EMERGENCY TELEPHONE NUMBER: 1300 796 009

PRODUCT NAME: Fire Resistant Hydraulic Fluid 620

OTHER NAMES: None

MANUFACTURER'S PRODUCT CODE: HI5-2927

USE: Glycol/water based fire resistant hydraulic fluid

ADDITIONAL INFORMATION: Refer to Product Information Sheet for additional information

OTHER INFORMATION: Visit our website: www.hi-tecoils.com.au
Email: hitecoils@hi-tecoils.com.au

2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: HAZARDOUS
NON-DANGEROUS GOODS
Hazard classification according to GHS Classification.
Dangerous goods classification according to Australian Dangerous Goods Code.

POISON SCHEDULE: 6



SIGNAL WORD: **WARNING**



SAFETY DATA SHEET

Page 2 of 10

Issue Date: 30 September 2020

Fire Resistant Hydraulic Fluid 620

Version: 1

2. HAZARDS IDENTIFICATION (CONT.)

SKIN CORROSION/IRRITATION: Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION: Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): Category 2

HAZARD STATEMENTS: H303 May be harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

PREVENTION PRECAUTIONARY STATEMENTS: P264 Wash hands, face and all exposed skin thoroughly after handling.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective clothing, gloves, eye/face protection.

RESPONSE PRECAUTIONARY STATEMENTS: P314 Get medical advice/attention if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical attention.
P362 Take off contaminated clothing and wash before reuse.
P301+P312 IF SWALLOWED: Call the POISON INFORMATION CENTER on 131126 or a doctor if you feel unwell.

PRECAUTIONARY STATEMENT(S) STORAGE: Not Applicable.

PRECAUTIONARY STATEMENT(S) DISPOSAL: P501 Dispose of contents/container in accordance with local regulations.

3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

CHEMICAL CHARACTERISTICS: Liquid

INGREDIENTS:-

CHEMICAL ENTITY:	CAS No.	PROPORTION
Ethane-1,2-diol / 2,2'-Oxydiethanol	107-21-1 / 111-46-6	25% - 50%
2-Diethylaminoethanol	100-37-8	1% - 2.5%
Neutralised Dibutylamine	111-92-2	0% - 1%
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	9038-95-3	0% - 1%
Ingredients determined not to be hazardous	Mixture	To 100%

OTHER INFORMATION: The petroleum oils in this product contain less than 3% DMSO extract as measured by IP 346 test method.





SAFETY DATA SHEET

Page 3 of 10

Issue Date: 30 September 2020

Fire Resistant Hydraulic Fluid 620

Version: 1

4. FIRST AID MEASURES

GENERAL INFORMATION:	Do not get in eyes, on skin, or on clothing. When symptoms persist or in all cases of doubt seek medical advice. Do not breathe dust/fume/gas/mist/vapours/spray.
INHALATION:	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.
SKIN CONTACT:	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
EYE CONTACT:	Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not rub affected area. Call a physician if irritation persists.
INGESTION:	Clean mouth with water and afterwards drink plenty of water. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
PROTECTION OF FIRST-AIDERS:	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED	Symptoms: Redness, Rash, Itching, Eye damage/irritation.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	Notes to Physicians: Treat symptomatically.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
UNSUITABLE EXTINGUISHING MEDIA:	None.
HAZARDS ARISING FROM THE CHEMICAL:	Hazardous decomposition products: None under normal use.
FIRE-FIGHTING RECOMMENDATIONS:	Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not enter storage areas or confined spaces unless adequately ventilated. Wear positive pressure air supplied respirator if required by safe entry procedures.
EMERGENCY RESPONDERS:	Use personal protection recommended in Section 8.



SAFETY DATA SHEET

Page 4 of 10

Issue Date: 30 September 2020

Fire Resistant Hydraulic Fluid 620

Version: 1

6. ACCIDENTAL RELEASE MEASURES (CONT.)

ENVIRONMENTAL PRECAUTIONS:	See Section 12 for additional Ecological Information.
METHODS FOR CONTAINMENT:	Prevent further leakage or spillage if safe to do so.
METHODS FOR CLEANING UP:	Pick up and transfer to properly labelled containers.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Do not enter storage areas or confined spaces unless adequately ventilated. Wear positive pressure air supplied respirator if required by safe entry procedures.
STORAGE CONDITIONS:	Keep containers tightly closed in a dry, cool and well-ventilated place.
RECOMMENDED SHELF LIFE:	12 Months.
INCOMPATIBLE MATERIALS:	None known based on information supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS:

Chemical Name	Australia	New Zealand
Ethane-1,2-diol (CAS# 107-21-1)	10 mg/m ³ , 20 ppm 52 mg/m ³ , 40 ppm STEL 104 mg/m ³ , STEL	Ceiling: 50 ppm Ceiling: 127 g/m ³
2,2'-Oxydiethanol (CAS# 111-46-6)	Skin 23 ppm, 100 mg/m ³	TWA: 23 ppm, TWA: 101 mg/m ³
2-Diethylaminoethanol	TWA: 10 ppm, TWA: 48 mg/m ³ (s)	TWA: 10 ppm, TWA: 48 mg/m ³ (s)

EXPOSURE LIMITS:	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
ENGINEERING CONTROLS:	Showers, Eyewash stations and Ventilation systems.
EYE/FACE PROTECTION:	Tight sealing safety goggles with side-shields.
SKIN & BODY PROTECTION:	Wear protective gloves/clothing.
RESPIRATORY PROTECTION:	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Do not enter storage areas or confined spaces unless adequately ventilated. Wear positive pressure air supplied respirator if required by safe entry procedures. Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS 1716.
ENVIRONMENTAL EXPOSURE CONTROLS:	No information available.





SAFETY DATA SHEET

Page 5 of 10

Issue Date: 30 September 2020

Fire Resistant Hydraulic Fluid 620

Version: 1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT.)

HYGIENE MEASURES:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

THERMAL HAZARDS:

None under normal use conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
APPEARANCE:	Clear red
ODOUR:	Amine-like
ODOUR THRESHOLD:	Not Determined
pH:	10
MELTING/FREEZING POINT:	Not Determined
BOILING POINT/RANGE:	Not Determined
FLASHPOINT (Cleveland Open Cup):	Not applicable
EVAPORATION RATE:	Not Determined
FLAMMABILITY (solid, gas):	Not Determined
FLAMMABILITY LIMITS -LOWER:	Not Determined
FLAMMABILITY LIMITS -UPPER:	Not Determined
VAPOUR PRESSURE:	Not Determined
VAPOUR DENSITY:	Not Determined
RELATIVE DENSITY @ 20°C:	1.073 g/cm ³
WATER SOLUBILITY:	Completely soluble.
SOLUBILITY:	Not Determined
PARTITION COEFFICIENT:	Not Determined
AUTO-IGNITION TEMPERATURE:	Not Determined
DECOMPOSITION TEMPERATURE:	Not Determined



SAFETY DATA SHEET

Page 6 of 10

Issue Date: 30 September 2020

Fire Resistant Hydraulic Fluid 620

Version: 1

9. PHYSICAL AND CHEMICAL PROPERTIES (CONT.)

KINEMATIC VISCOSITY @ 40°C:	43 cSt
EXPLOSIVE PROPERTIES:	Not applicable
OXIDISING PROPERTIES:	Not applicable
KINEMATIC VISCOSITY @ 100°C:	Not Determined
POUR POINT:	Not Determined
VOC CONTENT (ASTM E-1868-10):	Not Determined
VOC CONTENT:	Not Determined

10. STABILITY AND REACTIVITY

REACTIVITY:	None under normal use conditions.
CHEMICAL STABILITY:	Stable under normal conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:	None under normal processing.
CONDITIONS TO AVOID:	None known based on information supplied.
INCOMPATIBLE MATERIALS:	None known based on information supplied.
HAZARDOUS DECOMPOSITION PRODUCTS:	None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

INFORMATION ON LIKELY ROUTES OF EXPOSURE

Product Information - Principle Routes of Exposure

INHALATION:	Based on available data, the classification criteria are not met.
EYE CONTACT:	Irritating to eyes.
SKIN CONTACT:	Irritating to skin.
INGESTION:	Based on available data, the classification criteria are not met
SYMPTOMS:	Moderate skin irritation. Moderately irritating to the eyes.



SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION (CONT.)

Numerical measures of toxicity - Product Information

ATEmix (oral)	2,502.00 mg/kg
ATEmix (dermal)	6,767.00 mg/kg
ATEmix (inhalation-vapour)	46.00 mg/l
ATEmix (inhalation-dust/mist)	14.15 mg/l

ACUTE TOXICITY - PRODUCT INFORMATION

Product does not present an acute toxicity hazard based on known information

ACUTE TOXICITY - COMPONENT INFORMATION

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethane-1,2-diol	4000 mg/kg (Rat)	9530 µL/kg (Rabbit)	
2,2'-Oxydiethanol	12565 mg/kg (Rat)	11890 mg/kg (Rabbit)	
2-Diethylaminoethanol	1320 mg/kg (Rat)	1100 mg/kg (Rabbit)	
Neutralised Dibutylamine	550 mg/kg (Rat)	= 768 mg/kg (Rabbit)	= 1.15 mg/L (Rat) 4 h
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	>45000 mg/kg (Rat)	>21140 mg/kg (Rabbit)	0.106 - 0.26 mg/l (Rat) 4 h

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

SKIN CORROSION/IRRITATION:	Irritating to skin.
SERIOUS EYE DAMAGE/EYE IRRITATION:	Irritating to eyes.
RESPIRATORY OR SKIN SENSITISATION:	Based on available data, the classification criteria are not met.
GERM CELL MUTAGENICITY:	Based on available data, the classification criteria are not met.
CARCINOGENICITY:	Based on available data, the classification criteria are not met.
REPRODUCTIVE TOXICITY:	Based on available data, the classification criteria are not met.
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE):	Based on available data, the classification criteria are not met.
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE):	May cause damage to organs through prolonged or repeated exposure.
ASPIRATION HAZARD:	Based on available data, the classification criteria are not met.
EXPOSURE LEVELS:	See section 8 for more information.
INTERACTIVE EFFECTS:	None known.



SAFETY DATA SHEET

Page 8 of 10

Issue Date: 30 September 2020

Fire Resistant Hydraulic Fluid 620

Version: 1

12. ECOLOGICAL INFORMATION

ECOTOXICITY

No special environmental measures necessary

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethane-1,2-diol	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	41000: 96 h Oncorhynchus mykiss mg/L LC50 14-18: 96 h Oncorhynchus mykiss ml/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 40000-60000: 96 h Pimephales promelas mg/L LC50 static	46300: 48 h Daphnia magna mg/L EC50
2,2'-Oxydiethanol	-	75200: 96 h Pimephales promelas mg/L LC50 flow-through	84000: 48 h Daphnia magna mg/L EC50
2-Diethylaminoethanol	30: 72 h Desmodemus subspicatus mg/L EC50	1660-1920: 96 h Pimephales promelas mg/L LC50 flow-through 100-220: 96 h Leuciscus idus mg/L LC50 static	83.6: 48 h Daphnia magna Straus mg/L EC50
Neutralised Dibutylamine	16.9: 72 h Scenedesmus subspicatus mg/L EC50	5.5: 96 h Oncorhynchus mykiss mg/L LC50	65.98: 48 h Daphnia magna mg/L EC50 8.4: 48 h Ceriodaphnia dubia mg/L EC50

PERSISTENCE AND DEGRADABILITY: No information available.

BIOACCUMULATIVE POTENTIAL:

Chemical Name	Partition Coefficient
Ethane-1,2-diol	-1.93
2,2'-Oxydiethanol	-1.93
2-Diethylaminoethanol	0.21
Neutralised Dibutylamine	2.06

MOBILITY: No information available.

OTHER ADVERSE EFFECTS: No information available.

13. DISPOSAL CONSIDERATIONS

SAFE HANDLING AND DISPOSAL
METHODS:

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

DISPOSAL OF ANY CONTAMINATED
PACKAGING:

Do not reuse empty containers.

ENVIRONMENTAL REGULATIONS:

No information available.





SAFETY DATA SHEET

Page 9 of 10

Issue Date: 30 September 2020

Fire Resistant Hydraulic Fluid 620

Version: 1

15. TRANSPORT INFORMATION

ROAD & RAIL TRANSPORT:
ADG REQUIREMENT

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

MARITIME TRANSPORT:
IMO/IMDG REQUIREMENT

Not classified as a Dangerous Good according to the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT:
ICAO/IATA REQUIREMENT

Not classified as a Dangerous Good according to the criteria of the International Maritime Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

POISON SCHEDULE:

6.

PACKING & LABELLING:

No special packaging or labelling requirements.

AUSTRALIAN INVENTORY STATUS:

All components are listed or exempted.

16. OTHER INFORMATION

CONTACT PERSON/POINT:

General Manager 1300 796 009

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.



SAFETY DATA SHEET

Page 10 of 10

Issue Date: 30 September 2020

Fire Resistant Hydraulic Fluid 620

Version: 1

16. OTHER INFORMATION (CONT.)

- LITERATURE REFERENCES:
- * Safework Australia: 2016 Code of Practice for the Preparation of Safety Data Sheets for Hazardous Substances.
 - * NOHSC: 2011 National Code of Practice for the preparation of Material Safety Data Sheets.
 - * NOHSC: 1008 Approved Criteria for Classifying Hazardous Substances.
 - * NOHSC: 10005 List of Designated Hazardous Substances.
 - * NOHSC: 1005 Control of Workplace Hazardous Substances, National Code of Practice.
 - * NOHSC: 2007 Control of Workplace Hazardous Substances, National Code of Practice.
 - * NOHSC: 1003 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, National Exposure Standards.
 - * NOHSC: 3008 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, Guidance Note.
 - * NOHSC: 1015 Storage and Handling of Workplace Dangerous Goods, National Standard.
 - * NOHSC: 2017 Storage and Handling of Workplace Dangerous Goods, National Code of Practice.
 - * SUSDP: Standard for the Uniform Scheduling of Drugs and Poisons.
 - * ADG: Australian Dangerous Goods Code.
 - * MSDS of component materials.

LAST CHANGE: Supersedes document issued: New Document.
Reason/s for revision: Compliance with GHS requirements.

MR029003/1

END OF SDS