

Product name: RYCO Fire Resistant Hydraulic Fluid Q888-46, Q888-68

1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY: RYCO Hydraulics Pty Ltd (ABN 96 085 527 724)
ADDRESS: 19 Whitehall Street, Footscray, VIC. 3011 Australia

TELEPHONE NUMBER: (03) 9680 8000
FAX NUMBER: (03) 9680 8001

EMERGENCY TELEPHONE NUMBER: (03) 9680 8000

PRODUCT NAME: RYCO Fire Resistant Hydraulic Fluid Q888-46, Q888-68

OTHER NAMES: None

MANUFACTURER'S PRODUCT CODE: FHFR46-, FHFR68-

USE: Polyol ester based fire resistant hydraulic fluid

ADDITIONAL INFORMATION: Refer to Product Information Sheet for additional information.

OTHER INFORMATION: Visit our website: <http://www.RYCO.com.au>
Email: sales@RYCO.com.au

2. HAZARDS IDENTIFICATION

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

SIGNAL WORD (S): None

IRRITANCY OF PRODUCT: Not classified as an irritant.

SENSITISATION OF PRODUCT: Not known to be a sensitiser.

TERATOGENICITY: No teratogenic effects known.

OTHER INFORMATION: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and environment on disposal. All used oils should be handled with caution and skin contact avoided as far as possible.

3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

CHEMICAL CHARACTERISTICS: Liquid

INGREDIENTS:-

CHEMICAL ENTITY:	CAS No.	PROPORTION
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.

4. FIRST AID MEASURES

GENERAL INFORMATION: If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 13 11 26, New Zealand 0800 764 766).

INHALATION: Remove to fresh air. Treat symptomatically. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SKIN CONTACT: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Treat symptomatically. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. Treat symptomatically. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If easy to do, remove contact lenses.

INGESTION: Clean mouth with water and drink afterwards plenty of water. Treat symptomatically. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Do NOT induce vomiting.

SYMPTOMS & EFFECTS:
(BOTH ACUTE & DELAYED) No information available.

NOTES TO PHYSICIAN: 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:** Do not use water jetstream.
- HAZARDS ARISING FROM THE CHEMICAL:** Thermal decomposition can lead to release of irritating and toxic gases and vapours.
- FIRE-FIGHTING RECOMMENDATIONS:** Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

6. ACCIDENTAL RELEASE MEASURES

SPILLS & DISPOSAL: Slippery when spilt. Avoid accidents, clean up immediately.

CLEAN-UP PROCEDURE - SMALL SPILLS (20L or less): Absorb or contain liquid with sand, earth or spill control material. Shovel up using non-sparking tools and place in a sound labelled sealable container for subsequent safe disposal. Place leaking containers in a sound labelled drum. Scrub contaminated surfaces with detergent solution. Retain washings as contaminated waste.

CLEAN-UP PROCEDURES - LARGE SPILLS (Greater than 20L): Transfer to a sound labelled, sealable container for product recovery or safe disposal. Treat residues as for small spills.

PERSONAL PRECAUTIONS: Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Evacuate the area of non-essential personnel. Shut off leaks, if possible without personal risk. Do not breathe vapours. Ventilate contaminated area thoroughly. Dispose of according to local regulations.

OTHER INFORMATION:

PROCEDURES IN CASES OF LEAKAGE OR BREAKAGE: Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing outlined in this MSDS. Cover spill with inert absorbent earth. Use a stiff brush to mix thoroughly. Sweep up and place in a sound labelled disposable container. Scrub contaminated area with detergent and water using a stiff brush. Pick up liquid with additional absorbent material and place in a sound labelled disposable container. Prevent contamination of groundwater or surface water.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages. Ensure the appropriate personal protective equipment is used when handling this product. Ensure high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking smoking or using the toilet.
SAFE STORAGE CONDITIONS:	Keep containers closed at all times. Store in a cool place out of direct sunlight. Store away from oxidising agents. Check containers regularly for leaks.
CORROSIVENESS:	Not corrosive.
STORAGE REGULATIONS:	Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Refer to AS 1940 – The Storage and Handling of Flammable Liquids, and NOHSC: 1015 – National Standard for Storage and Handling of Workplace Dangerous Goods for further information.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS:	No exposure standard has been established for this product. NOHSC Exposure Standard: Oil mists – time weighted average (TWA) 5 mg/m ³ is recommended.
OTHER EXPOSURE INFORMATION:	Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short term exposure limit (STEL).
ENGINEERING CONTROLS:	Maintain concentration below recommended exposure limit. Special ventilation is not normally required. However, in the operation of certain equipment or at elevated temperatures mists or vapour may be generated and localised exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard or the Manufacturer's recommended exposure standard.
RESPIRATORY PROTECTION:	A respirator is not normally required. Airborne concentrations should be kept at lowest level possible. If vapours, mists or dusts are generated and the recommended exposure limit for the product is exceeded, use appropriate AS/NZS 1715/1716 approved half –face filter respirator suitable for organic vapours or air supplied respirator are worn. Air supplied respirators should always be worn when the airborne concentration of the contaminant or the oxygen content of the air is unknown
EYE PROTECTION:	Safety glasses, goggles or face shield as appropriate.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

HAND PROTECTION:	Wear gloves of impervious material such as PVC, neoprene or nitrile gloves.
FOOTWEAR:	Enclosed footwear.
BODY PROTECTION:	Overalls or similar protective apparel.
HYGIENE MEASURES:	Always wash hands before eating, drinking, smoking or using the toilet. If contamination occurs, change clothing. Launder contaminated clothing before reuse. Discard internally contaminated gloves.
SPECIAL PROTECTIVE MEASURES:	The product will not burn unless preheated. Isolate from sources of heat, naked flames or sparks.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
APPEARANCE:	Clear liquid.
COLOUR:	Amber
ODOUR:	Characteristic
MELTING POINT:	Not available
DENSITY @ 25°C (kg/L):	0.91 typical
FLASHPOINT (ASTM D-93), Closed Cup:	Min 300°C
FLAMMABILITY LIMITS -LOWER:	Not available
FLAMMABILITY LIMITS -UPPER:	Not available
SOLUBILITY IN WATER:	Not soluble.
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY (Air = 1):	Not available
VISCOSITY @ 40 °C (mm ² /s):	Approximately 46, 68
EVAPORATION RATE:	Not available
AUTO-IGNITION TEMPERATURE:	Not available
EXPLOSION PROPERTIES:	Not considered an explosion risk under normal conditions of use.
OTHER INFORMATION:	These physical data and other properties do not constitute a specification.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under normal conditions of use.
CONDITIONS TO AVOID:	Heat, direct sunlight, open flames or other sources of ignition.
INCOMPATIBLE MATERIALS:	Strong oxidising agents.
HAZARDOUS REACTIONS:	Will react with strong oxidising agents.
HAZARDOUS POLYMERISATION:	Will not occur.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGY INFORMATION:	No toxicology data available for this product.
INHALATION:	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
INGESTION:	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
SKIN:	May cause irritating in contact with skin. Symptoms may include redness and itchiness.
EYE:	May cause irritation to eyes. Symptoms may include redness, tearing, stinging and blurred vision.
REPRODUCTIVE TOXICITY:	Product is not a known to have damaging reproductive effects.
CHRONIC EFFECTS:	Prolonged or repeated skin contact may cause defatting leading to dermatitis.
MUTAGENICITY:	Mutagenic effects not known.
CARCINOGENICITY:	Product is not a known carcinogen.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	Do not allow material to enter drains or watercourses.
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13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

WASTE FROM RESIDUES/UNUSED PRODUCTS:	Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.
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13. DISPOSAL CONSIDERATIONS (CONT)

CONTAMINATED PACKAGING: Disposal should be in accordance with applicable regional, national and local laws and regulations. Observe all label precautions until container is cleaned, reconditioned or destroyed. Refer to all federal, state and local regulations prior to disposal of container and unused contents by re-use, recycle or disposal.

14. 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: Not scheduled.

PACKING & LABELLING: No special packaging or labelling requirements.

AUSTRALIAN INVENTORY STATUS: All components are listed or exempted.

16. OTHER INFORMATION

CONTACT PERSON/POINT: Product Manager Industrial (03) 9680 8000

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.

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: 13 August 2013
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END OF SDS