

Product name: RYCO Fire Resistant Hydraulic Fluid QA720

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 QA720

OTHER NAMES: RYCO FR Hydraulic Fluid QA720

MANUFACTURER'S PRODUCT CODE: RHFR720-

USE: Water glycol 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 NOHSC.
Dangerous goods classification according to Australian Dangerous Goods Code.

RISK PHRASE (S):

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	
CHEMICAL ENTITY:	CAS No.	PROPORTION
Morpholine	110-91-8	0-1%
Propylene Glycol	57-55-6	30-60%
Ingredients determined not to be hazardous	Mixture	To 100%

4. FIRST AID MEASURES

INHALATION:	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If irritation develops seek medical attention.
INGESTION:	DO NOT induce vomiting. Immediately wash out mouth with water. If symptoms develop seek medical attention.
SKIN:	Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If irritation develops seek medical attention.
EYE:	If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation persists seek medical attention.
FIRST AID FACILITIES:	Eye wash and normal washroom facilities. Advice to Doctor Treat symptomatically.
ADVICE TO DOCTOR:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use extinguishing media suitable for surrounding environment.
Hazards from Combustion Products:	Non-flammable, non-combustible however if involved in a fire once all the water has been driven off, residue is combustible. May release toxic gases.
Precautions in connection with Fire:	Wear Self-Contained Breathing Apparatus and full protective clothing to minimise exposure.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Increase ventilation. Evacuate all unnecessary personnel. Wear Self-Contained Breathing Apparatus and full protective clothing to minimise exposure. Contain spillage by damming and cover with inert, non combustible absorbent material. Use clean tools to collect the material and place into suitable labelled containers ready for disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
-----------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with skin and eyes. Avoid inhalation. Repeated or prolonged exposure without protection should be prevented in order to lessen the possibility of disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or going to the toilet.

Conditions for Safe Storage: The product should be stored in a cool, dry, well ventilated area, away from incompatible materials. Keep containers tightly closed when not in use and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure	Name	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA
Standards	Propylene glycol			474	150
Morpholine				71	20

Biological Limit Values No biological limit allocated.

Other Exposure Information No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC). However, exposure standards for ingredients are stated above: As published by the National Occupational Health and Safety Commission (NOHSC): TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Engineering Controls Use only in a well ventilated area. Where vapours or mists are generated, particularly in enclosed areas, and/or natural ventilation is inadequate, a local exhaust ventilation system is recommended.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

Eye Protection Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform to Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT.)

Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Red Liquid
COLOUR:	Red
ODOUR:	Not available
MELTING POINT:	Not available
BOILING POINT:	Not available
DENSITY @ 15°C (kg/L):	1.05 @25°C
FLASHPOINT (ASTM D-93), Closed Cup:	Not applicable
FLAMMABILITY:	Combustible Liquid C2 according to AS 1940.
SOLUBILITY IN WATER:	Soluble.
SOLUBILITY IN ORGANIC SOLVENTS:	Not available
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY (Air = 1):	Not available
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.
INCOMPATIBLE MATERIALS:	Strong oxidising agents.
HAZARDOUS REACTIONS:	Thermal decomposition may result in the release of toxic and/or irritating fumes.
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 irritation 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 lead to irritant contact 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.
-------------------------	--------------------------------------------------------

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:	Dispose of according to federal, E.P.A. and state regulations.
--------------------------	----------------------------------------------------------------

14. TRANSPORT INFORMATION

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

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.

LITERATURE REFERENCES:

- * 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
- * SDS of component materials.

LAST CHANGE: Supersedes document issued: New
Reason/s for revision: Alignment to NOHSC.

GH319030/4

END OF SDS