

**Product name:** RYCO Heavy Duty Degreaser

## 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 Heavy Duty Degreaser

**OTHER NAMES:** None

**MANUFACTURER'S PRODUCT CODE:** RHDD-

**USE:** Solvent based degreaser/cleaning product

**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](mailto:sales@RYCO.com.au)

## 2. HAZARDS IDENTIFICATION

**HAZARD CLASSIFICATION:** HAZARDOUS SUBSTANCE Hazchem Code 3(Y)  
DANGEROUS GOODS Class 3 Flammable Liquids  
Hazard classification according to criteria of NOHSC.  
Dangerous goods classification according to Australian Dangerous Goods Code.

**RISK PHRASE (R):** X(n) Harmful  
N Dangerous for the environment  
R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

**SAFETY PHRASE (S):** S2 Keep out of reach of children  
S23 Do not breathe vapour.  
S24 Avoid contact with skin.  
S61 Avoid release to the environment. Refer to special instructions/Safety sheets.  
S62 If swallowed, do not induce vomiting: seek medical immediately and show this container or label.

### 3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

HAZARD CLASSIFICATION:	HAZARDOUS SUBSTANCE DANGEROUS GOODS Hazard classification according to criteria of NOHSC. Dangerous goods classification according to Australian Dangerous Goods Code.	Hazchem Code 3(Y) Class 3 Flammable Liquids
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SAFETY PHRASE (S):	S2 Keep out of reach of children S23 Do not breathe vapour. S24 Avoid contact with skin. S61 Avoid release to the environment. Refer to special instructions/Safety sheets. S62 If swallowed, do not induce vomiting: seek medical immediately and show this container or label.	

### 4. FIRST AID MEASURES

#### HEALTH EFFECTS

SWALLOWED:	If a large quantity is ingested seek immediate medical attention. Give water to drink. DO NOT induce vomiting. If vomiting occurs get immediate medical attention due to aspiration into lungs risk.
EYE:	Immediately irrigate with copious amounts of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
SKIN:	Remove contaminated clothing and wash skin thoroughly with plenty of soap and water. High pressure injection through the skin requires <b>URGENT</b> medical attention for possible incision, irrigation and/or debridement. Contact with molten material will require treatment by a physician for burns (Do not remove material).
INHALED:	Remove victim from exposure to fresh air – avoid becoming a casualty. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage and seek urgent medical aid.
FIRST AID FACILITIES:	Normal washroom facilities are generally suitable. Ensure an eye wash station and safety shower is available and ready for use.
ADVICE TO DOCTOR:	Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.
OTHER INFORMATION:	Keep water and mild soap near work site

## 5. FIRE FIGHTING MEASURES

### FIRE/EXPLOSION HAZARD

HAZARDS OF USE/STORAGE:	Will float and can be reignited on surface water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
HAZARDS FROM COMBUSTION PRODUCTS:	Carbon monoxide may be evolved if incomplete combustion occurs. Combustion products may include: oxides of carbon, nitrogen and sulphur, a complex mixture of airborne unidentified organic and inorganic solid and liquid particulates.
FIRE-FIGHTING RECOMMENDATIONS:	If safe to do so, remove containers from path of fire. Keep storage tanks, pipelines, containers, fire exposed surfaces, etc. cool with water spray. Avoid spreading liquid and fire by water flooding.
PRECAUTION:	Water jet may cause splattering.
SUITABLE EXTINGUISHING MEDIA:	Use water spray or fog, foam, carbon dioxide or dry chemical.
PROTECTIVE MEASURES:	Fire fighters should wear self-contained breathing apparatus if risk of exposure to products of combustion.
REACTIVITY:	May react with strong oxidising agents.

## 6. ACCIDENTAL RELEASE MEASURES

SPILLS & DISPOSAL:	Slippery when spilt. Avoid accidents, clean up immediately. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
	<b>CLEAN-UP PROCEDURE - SMALL SPILLS (20L or less):</b> 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.
	<b>CLEAN-UP PROCEDURES - LARGE SPILLS (Greater than 20L):</b> Transfer to a sound labelled, sealable container for product recovery or safe disposal. Treat residues as for small spills.
	<b>PERSONAL PRECAUTIONS:</b> 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:	<b>PROCEDURES IN CASES OF LEAKAGE OR BREAKAGE:</b> Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing outlined in this MSDS. Allow spill to evaporate or cover with inert absorbent or 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:** Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/sec until fill pipe submerged to twice its diameter, then  $\leq 7$  m/sec). Avoid splash filling. DO NOT use compressed air for filling, discharging, or handling operations.

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:** For containers, or container linings use mild steel, stainless steel. Avoid prolonged contact with natural, butyl or nitrile rubbers. Keep containers closed at all times. Store in a cool place out of direct sunlight. Store away from oxidising agents and other flammables. Check containers regularly for leaks.

## 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)  $5 \text{ mg/m}^3$  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:** 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.

**HAND PROTECTION:** Nitrile gloves recommended for long term use.

**FOOTWEAR:** Enclosed footwear.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

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:	Isolate from sources of heat, naked flames or sparks.
HAND PROTECTION:	Chemical resistant impervious gloves (neoprene, nitrile, PVA, Viton) or other suitable gloves conforming to AS/NZS 2161: Occupational Protective 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
COLOUR:	Blue
ODOUR:	Paraffinic
MELTING POINT:	Less than 0°C
BOILING POINT:	162 - 192°C
DENSITY @ 15°C (kg/L):	0.78 typical
FLASHPOINT (Abel) :	42°C
FLAMMABILITY LIMITS -LOWER:	Approximately 0.7%
FLAMMABILITY LIMITS -UPPER:	Approximately 6.5%
FLAMMABILITY:	Flammable.
SOLUBILITY IN WATER:	Not soluble.

## 9. PHYSICAL AND CHEMICAL PROPERTIES (CONT)

SOLUBILITY IN ORGANIC SOLVENTS:	Soluble in petroleum solvents.
VAPOUR PRESSURE:	370 Pa @20°C
VAPOUR DENSITY (Air = 1):	Data not available
VISCOSITY @ 25 °C (mm <sup>2</sup> /s):	Approximately 1.08
EVAPORATION RATE:	Data not available
AUTO-IGNITION TEMPERATURE:	296°C
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:	This product contains petroleum base oils, which may be refined by various processes including severe solvent extraction, hydro cracking and hydro treating. These oils have not been listed in the U.S. National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans. Oral LD50 ( {UDO1} ) : { UDO2 } mg/kg. Information given is based on similar products and / or components.
INHALATION:	Inhalation of mists or aerosols can produce respiratory irritation. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea. Continued inhalation may result in unconsciousness or death. Acute Inhalation Toxicity is Low: LC50 greater than near saturated vapour concentration / 4 hours rat.

## 11. TOXICOLOGICAL INFORMATION (CONT)

INGESTION:	May cause mild irritation of the mouth, throat and stomach with nausea and mild diarrhoea. Aspiration into the lungs when swallowed may cause chemical pneumonitis which can be fatal. Ingestion of large amounts can cause vomiting which can lead to aspiration of vomited material into the lungs and possible chemical pneumonitis. Acute Oral Toxicity is Low: LD50 > 2000 mg/kg rat.
SKIN:	May cause moderate irritation with a de-fatting effect on the skin. Acute Dermal Toxicity is Low: LD50 > 2000 mg/kg rat.
EYE:	May cause watering of eyes.
REPRODUCTIVE TOXICITY:	Reproductive effects not known.
CHRONIC EFFECTS:	Prolonged or repeated exposure may result in irritation, defatting and with the possibility of dermatitis.
MUTAGENICITY:	Not expected to be mutagenic.
CARCINOGENICITY:	Limited evidence of carcinogenic effects (ethyl benzene).

## 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	Leaching and penetration through soils is generally regarded as resulting in long-term persistence. Fresh or used product may be harmful to aquatic life. Do not allow material to enter drains or watercourses.
ACUTE TOXICITY:	Fish: Harmful: 10 < LC/EC/IC50 <= 100 mg/l Aquatic Invertebrates: Harmful: 10 < LC/EC/IC50 <= 100 mg/l Algae: Toxic: 1 < LC/EC/IC50 <= 10 mg/l Microorganisms: Expected to be Harmful: 10 < LC/EC/IC50 <= 100 mg/l
MOBILITY:	Floats on water
PERSISTENCE/BIODEGRADABILITY:	Readily biodegradable. Oxidises rapidly by photochemical reactions
BIO-ACCUMULATION:	Has potential to bioaccumulate

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:	Dispose of according to federal, E.P.A. and state regulations. Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.
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## 14. TRANSPORT INFORMATION

TRANSPORT INFORMATION: Classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
UN Code: 1300 Turpentine Substitute

## 15. REGULATORY INFORMATION

POISON SCHEDULE: S2

PACKING & LABELLING: Dangerous Goods Class 3  
Packaging Group III  
Hazchem Code 3(Y)  
X(n) Harmful

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.

Material 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.



## **16. OTHER INFORMATION (CONT)**

- \* 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  
Reason/s for revision: Alignment to NOHSC requirements.

GH319030/6

END OF SDS