Product name: **RYCO De-Rust Lubricant**

1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY: ADDRESS:	RYCO Hydraulics Pty Ltd (ABN 96 085 527 724) 19 Whitehall Street, Footscray, VIC. 3011 Australia
TELEPHONE NUMBER: FAX NUMBER:	(03) 9680 8000 (03) 9680 8001
EMERGENCY TELEPHONE NUMBER:	(03) 9680 8000
PRODUCT NAME:	De-Rust Lubricant
OTHER NAMES:	None
MANUFACTURER'S PRODUCT CODE:	RDLUBE-400G
USE:	A lubricating and penetration spray to displace moisture to help start wet engines, loosen nuts and bolts, and overcome a wide range of moisture induced problems.
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:	HAZARDOUS SUBSTANCE DANGEROUS GOODS Hazard classification according to criteria of NOHSC and GHS. Dangerous goods classification according to Australian Dangerous Goods Code.
POISON SCHEDULE:	None allocated
ADG CLASSIFICATION:	Class 2.1: Flammable gas

GHS LABEL ELEMENTS

SIGNAL WORD(S): **DANGER**

2. HAZARDS IDENTIFICATION (CONT)

GHS HAZARD CLASSIFICATIONS

FLAMMABLE AEROSOLS:	Category 1
PRESSURISED AEROSOLS:	Category 1
HAZARD STATEMENTS:	H222: Extremely flammable aerosol H229: Pressurised container: may burst if heated.
PREVENTION STATEMENTS:	P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Pressurized container: Do not pierce or burn, even after use.
RESPONSE STATEMENTS:	P101 If medical advice is needed, have product container label at hand. P301+P310 IF SWALLOWED: Immediately call the POISON INFORMATION CENTER on 13 11 26 or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P331 Do NOT induce vomiting. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.
STORAGE STATEMENTS:	P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.
DISPOSAL STATEMENT:	P501: Dispose of contents/container in accordance with local regulations.
OTHER HAZARDS:	No information provided.

3. COMPOSITION/INFORMATION OF INGREDIENTS

Ingredient	CAS Number	Content
Naphtha (petroleum) hydrodesulphurised, heavy	64742-82-1	<55%
Butane	106-97-8	<25%
Propane	74-98-6	<25%
Distillates (petroleum), solvent-dewaxed heavy parafinic	64742-65-0	<15%
Wool grease	-	<5%
Sorbitan Mono Oleate	1338-43-8	<1%
1,2,3-Benzotriazole	95-14-7	<0.5%
Additive (s)	-	Remainder

4. FIRST AID MEASURES

GENERAL:	If poisoning occurs, contact a doctor or the Poisons Information Centre (Phone Australia 13 11 26, New Zealand 0800 764 766). Have this SDS with you when you call.
EYE CONTACT:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
INHALATION:	If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
SKIN CONTACT:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre on 13 11 26 or a doctor.
INGESTION:	For advice, contact the Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.
FIRST AID FACILITIES:	No information provided.
NOTES TO PHYSICIAN:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:	Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.
SPECIAL HAZARDS ARISING:	Highly flammable aerosol. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Aerosol may explode at temperatures exceeding 50°C. Eliminate all ignition sources, including cigarettes, open flames, spark producing switches/tools, heaters, pilot lights, mobile phones, etc when handling. Aerosol cans may explode above 50°C.
ADVICE FOR FIREFIGHTERS:	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use, waterfog to cool intact containers and nearby storage areas.
HAZCHEM CODE:	2YE

2 Fine Water Spray.
Y Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.
E Evacuation of people in and around the immediate vicinity of the incident should be considered.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS & PPE:	Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible.
ENVIRONMENTAL PRECAUTIONS:	Prevent product from entering drains and waterways.
METHODS OF CLEANING UP:	Contain spillage, then cover/absorb spill with non-combustible absorbent material (vermiculite, sand or similar), collect and place in suitable containers for disposal.

7. HANDLING AND STORAGE

HANDLING:	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.
STORAGE:	Store in a cool (<50°C), dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure aerosol containers/cans are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for damaged/leaking containers. Large storage areas should have appropriate fire protection systems.
SPECIFIC END USE (S):	No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

EXPOSURE STANDARDS:

Ingredient	Reference	TWA		STEL	
		ppm	mg/m³	ppm	mg/m³
Butane	SWA (AUS)	800	1900	--	--
2-Butoxyethanol (EGBE)	SWA (AUS)	20	96.9	50	242
Mineral Oil Mist	SWA (AUS)	--	5	--	--
Propane	SWA (AUS)		Asphyxiant		

BIOLOGICAL LIMITS:

Ingredient	Determinant	Sampling Time	BEI
Ethylene Glycol monobutyl ether	Butoxyacetic acid (BAA) in urine (with hydrolysis)	End of Shift	200 mg/g creatinine

Reference: ACGIH Biological Exposure Indices

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

EXPOSURE CONTROLS

ENGINEERING CONTROLS: Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable vapours may accumulate in poorly ventilated or confined areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

PPE:

Eye / Face	Wear splash-proof goggles.
Hands	Wear nitrile or neoprene gloves.
Body	Not required under normal conditions of use.
Respiratory	Where an inhalation risk exists, wear a Type A-Class P1 (organic gases/vapours and particulate respirator).

ADDITIONAL INFORMATION:

AEROSOL CANS may explode at temperatures approaching 50°C.
RESPIRATORS: In general, the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn, ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:
It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber coloured (aersol dispensed)

ODOUR: Aromatic

FLAMMABILITY: Highly flammable

9. PHYSICAL AND CHEMICAL PROPERTIES (CONT)

FLASH POINT:	<23°C
BOILING POINT:	Not available
MELTING POINT:	Not available
EVAPORATION RATE:	Not available
pH:	Not available
VAPOUR DENSITY:	Not available
SPECIFIC GRAVITY:	0.79 – 0.82
WATER SOLUBILITY:	Insoluble
VAPOUR PRESSURE:	Not available
EXPLOSION LIMITS:	Not relevant
PARTITION COEFFICIENT:	Not available
AUTOIGNITION TEMPERATURE:	Not available
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	Not available
EXPLOSION PROPERTIES:	Not available
OXIDISING PROPERTIES:	Not available
ODOUR THRESHOLD:	Not available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under recommended conditions of storage.
HAZARDOUS REACTIONS:	Polymerization is not expected to occur.
CONDITIONS TO AVOID:	Avoid heat, sparks, open flames and other ignition sources.
INCOMPATIBILITIES:	Incompatible with oxidising agents (eg-hypochlorites), acids (eg-nitiric acid), alkalis (eg-sodium hydroxide), heat and ignition sources.
HAZARDOUS DECOMPOSITION PRODUCTS:	May evolve carbon oxides and hydrocarbons when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL EFFECTS

ACUTE TOXICITY — Information available for the product:
Based on available data, the classification criteria are not met. This product may have the potential to cause adverse health effects if intentionally misused (eg-deliberately inhaling contents).

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
Naphtha (petroleum) hydrodesulphurised, heavy	> 2,000 mg/kg (rat)	-	-
Butane	-	-	658,000 mg/m^3/4H (rat)
Propane	-	-	> 800,000 ppm/15M (rat)
Ethylene glycol monobutyl ether	300 mg/kg (rabbit)	721 mg/kg (NICNAS)	700 ppm (mouse)
1,2,3-Benzotriazole	500 mg/kg (guinea pig)	>1 g/kg (rat)	1910 mg/m^3/3H (rat)

SKIN: Contact may result in drying and defatting of the skin, rash and dermatitis.

EYE: Contact may result in irritation, lacrimation, pain and redness.

SENSITISATION: Not classified as causing skin or respiratory sensitisation.

MUTAGENICITY: Not classified as a mutagen.

CARCINOGENICITY: Not classified as a carcinogen.

REPRODUCTIVE: Not classified as a reproductive toxin.

STOT – SINGLE EXPOSURE: Over exposure may result in irritation of the nose and throat, coughing and headache. High level exposure may result in nausea, dizziness and drowsiness.

STOT – REPEATED EXPOSURE: Not classified as causing organ damage from repeated exposure.

ASPIRATION: Ingestion is considered unlikely due to product form. However, if liquid component is ingested, aspiration into the lungs may cause chemical pneumonitis and pulmonary oedema.

12. ECOLOGICAL INFORMATION

TOXICITY: There is no data available on the preparation itself. Do not allow to enter drains and watercourses.

PERSISTENCE & DEGRADABILITY: No information provided.

BIOACCUMULATIVE POTENTIAL: No information provided.

MOBILITY IN SOIL: No information provided.

OTHER ADVERSE EFFECTS: No information provided.

13. DISPOSAL CONSIDERATIONS

DISPOSAL:	For small amounts, absorb contents with sand or similar and dispose of to an approved landfill site. Do not puncture or incinerate aerosol cans. Contact the manufacturer for additional information (if required).
LEGISLATION:	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

UN NO:	1950
PROPER SHIPPING NAME:	AEROSOLS
TRANSPORT HAZARD CLASS:	2.1
PACKING GROUP:	None allocated
DANGEROUS GOODS CLASS:	2.1: Flammable gas
ENVIRONMENTAL HAZARDS:	Not a marine pollutant
SPECIAL PRECAUTIONS FOR USER	
HAZCHEM CODE:	2YE
GTEPG:	2D1
EMS:	F-D, S-U

15. REGULATORY INFORMATION

POISON SCHEDULE:	A poison schedule number has not been allocated to the product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
CLASSIFICATIONS:	Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals. The classifications and phrases lised below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].
HAZARD CODES:	F+ Extremely flammable.
RISK PHRASES:	R12 Extremely flammable.
SAFETY PHRASES:	S16 Keep away from sources of ignition – No smoking. S23 Do not breathe gas/fumes/vapour/spray (where applicable).
PACKING & LABELLING:	Refer to Section 14
AUSTRALIAN INVENTORY STATUS:	All components are listed on AICS, or are exempt.

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:

* 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: 24 September 2013
Reason/s for revision: Minor editorial changes, alignment to GHS requirements.

KH911150/1

END OF SDS