

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	PRO-POWER II RED
Manufacturer's Product Code	0368
Other Names	Blended hydrocarbon degreaser.
Major Recommended Uses	As a degreaser for use in soak tanks and recirculating parts washers.
Supplier's Details	Mantek 7 Ralph Street, Alexandria Sydney NSW 2015 Telephone Number (Office Hours): (02) 9669 0261 Fax Number: (02) 9693 1562 Emergency Telephone Number: (02) 9214 0755
Date of Issue	May 2007

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification	Classified as hazardous according to the criteria of NOHSC.
Dangerous Goods Class & Sub-risk	None allocated.
Poisons Schedule	Schedule 5
Risk Phrases	May cause lung damage if swallowed and aspirated into lungs. May cause sensitisation by skin contact in sensitive individuals. Toxic to aquatic organisms.
Safety Phrases	Keep out of the reach of children. If swallowed, do NOT induce vomiting; seek medical advice immediately. Wear suitable gloves to avoid contact with skin. Do not breathe vapour.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients		
Chemical Entity	CAS No	Proportion
Light distillates (petroleum), hydrotreated	64742-47-8	>60%
d-limonene	5989-27-5	<10%
'Ingredients determined not to be hazardous'		to 100%

SECTION 4 – FIRST AID MEASURES

Skin	Wash affected areas with soap and running water. Seek medical attention if irritation develops. Wash contaminated clothing before re-use.
Eye	Rinse the eyes with water for several minutes, including under the eyelids. Seek medical attention if irritation develops and persists.
Inhalation	Remove victim to fresh air and treat symptomatically, using proper respiratory protection if required. Give oxygen if breathing is difficult and seek medical attention if irritation persists. If not breathing, administer artificial respiration and seek prompt medical attention.
Ingestion	If swallowed do not induce vomiting. Give water and seek prompt medical attention.
First Aid Facilities	Eye wash station and normal washroom facilities.
Advice to Doctor	Treat the patient symptomatically. Do not induce vomiting as aspiration of material into lungs after can cause chemical pneumonitis. Gastric lavage should be considered. Keep patients head below hips to prevent pulmonary aspiration. If comatose, a cuffed endotracheal tube will prevent aspiration.

SECTION 5 – FIRE FIGHTING MEASURES

Product is not flammable. The product is a combustible liquid.	
Suitable Extinguishing Media	Use foam, dry chemical, CO ₂ or water spray to extinguish fire. Use water spray to cool fire exposed surfaces and to protect personnel.
Special Protective Equipment and Precautions for Fire Fighters	Fire fighters should wear self-contained breathing apparatus and full protective gear.
Fire/Explosive Hazards	Product may produce a floating fire hazard as liquid floats on water.
Hazchem Code	None allocated.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Methods and Materials for Containment and Clean Up	<p>Wear appropriate protective clothing and equipment to minimise exposure (See Section 8). Extinguish or remove all sources of ignition and stop leak if safe to do so.</p> <p>For large spills, dike and contain the spill if possible and pump into properly labelled containers for disposal. For smaller spills, absorb with an inert absorbent material and dispose of waste in a closed, labelled container in accordance with Environmental Protection Authority (EPA), local, state and Commonwealth regulations. Flush area with water.</p> <p>Prevent product from contaminating soil and waterways and from entering sewerage and drainage systems. If large quantities of this material enter the waterways contact the EPA or your local Waste Management Authority. For water spills, notify port or relevant authority, keep public away, and warn other shipping. Confine spill if possible and remove from surface by skimming or with suitable absorbents.</p>
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SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling	<p>Observe precautions stated on product label, and follow industry safety regulations. Smoking, eating and drinking should be prohibited in work areas where hydrocarbons are present. Always wash hands after contact with the product and before eating, drinking, smoking or using toilet facilities. Keep away from open flames, hot surfaces and sources of ignition and sparks. Open containers cautiously as contents may be under pressure. Use only in a well ventilated area. Do not store or use in confined spaces. Avoid inhalation of vapour and mists. As with all solvent products, dealing with large quantities, repeated or prolonged exposure without protection should be prevented.</p>
Conditions for Safe Storage	<p>Store product in its tightly closed original container <49°C in a dry, well-ventilated area at standard atmospheric pressure. Keep away from heat sources, sources of ignition, oxidising agents and direct sunlight. Do not pressurise, cut, heat or weld containers.</p>

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards	Not established for this mixture. The NOHSC's recommended exposure limit for 'refined mineral oil mist' is TWA 5mg/m ³ .
Engineering Controls	General ventilation is normally adequate, although local exhaust ventilation is strongly recommended if vapour exposure exceeds Exposure Standards and when using in a confined space. (Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS 2430 - Explosive gas atmospheres for further information concerning ventilation requirements.)
Personal Protective Equipment	
Eye/Face Protection	Avoid contact. Safety glasses with side shields should be worn if eye contact is likely. If splashing of material is likely, a face shield should be worn. Eye protection should conform with AS/NZS 1337- Eye Protectors for Industrial Applications.
Skin Protection	Wear appropriate impervious chemical resistant gloves – e.g. nitrile, neoprene. Reference should be made to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance. Wear appropriate clothing including chemical resistant apron if clothing is otherwise likely to be contaminated.
Respiratory Protection	Not required under usual ambient temperature conditions. If engineering controls are not effective in controlling airborne exposure then an approved organic vapour respirator suitable for protecting against airborne contaminants should be used. Reference should be made to AS/NZS 1715 and AS/NZS 1716.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Transparent, red, non-viscous liquid.
pH	Not applicable.
Boiling Point	239°C
Vapour Pressure	0.13mm Hg
Vapour Density	5.0 (Air = 1)
Solubility in Water (g/L)	Negligible.
Specific Gravity	0.81
Flashpoint	94°C
Flashpoint Method	P.M.C.C
Flammability Limits (%)	LEL – 0.3%; UEL – 6.1%
% Volatile by volume	100
Evaporation Rate	0.01 (Butyl acetate = 1)

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SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable at ambient temperatures and pressures.
Hazardous Polymerisation	Will not occur.
Conditions/Materials to Avoid	Strong oxidising agents such as chlorine bleach and concentrated hydrogen peroxide; strong acids; clays; halogens; aluminium chloride; iodine pentafluoride; iodine pentafluoroethylene; vinyl chloride.
Hazardous Decomposition Products	Oxides of carbon.

SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:	
Acute - Swallowed	May cause lung damage if swallowed and aspirated into lungs. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause broncopneumonia or pulmonary oedema. Symptoms may include nausea, vomiting and diarrhoea.
Acute - Eye	May cause irritation in contact with eyes. Symptoms may include redness, tearing, stinging and swelling.
Acute - Skin	Frequent or prolonged contact may irritate, de-fat and dry the skin. Symptoms may include redness and itchiness. May cause sensitisation in users sensitive to orange oils. Repeated or prolonged skin contact with solvents may lead to dermatitis.
Acute - Inhaled	Vapour concentrations above recommended exposure levels may be irritating to the respiratory tract with coughing and sneezing. May cause headaches and dizziness, could be anaesthetic and may have other central nervous system effects.
Chronic	Excessive exposure can lead to skin sensitisation. Medical conditions aggravated by exposure are pre-existing skin and respiratory conditions such as asthma, emphysema and dermatitis. The primary routes of exposure are skin and eye contact; the primary routes of entry are inhalation and absorption.
Target Organs	Lungs, central nervous system, blood-forming organs.
Product Contains Chemicals Listed as Carcinogens by	International Agency for the Research of Cancer (IARC): NO Other: NO

SECTION 12 – ECOLOGICAL INFORMATION

No specific toxicology data on this product is available. When used as indicated, no adverse environmental effects are foreseen. The product should not be allowed to enter drains, waterways or sewers. No biological limit allocated.	
Persistence/Degradability	No data available for this specific material.
Mobility	Not soluble in water.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste in a closed, labelled container in accordance with EPA, local, state and federal laws.

SECTION 14 – TRANSPORT INFORMATION

UN Number	None allocated.
UN Proper Shipping Name	None allocated.
Transport Hazard Class	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Packaging Group	None allocated.
Hazchem Code	None allocated.

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SECTION 15 - REGULATORY INFORMATION



Poisons Schedule SCHEDULE 5

Irritant

SECTION 16 – OTHER INFORMATION

Initial copy of 16-header MSDS.

Since the user's working conditions are not known by the supplier, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified in Section 1 without first obtaining written handling instructions. MANTEK assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such non-recommended use, storage or disposal of the product.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

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