

SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY INFORMATION
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PRODUCT:

Product Name: MBL GREASE

Product Description: Metal Based Lubricating Grease

Product Codes: MBL GREASE 50125 - 450g, 88009 - 12 X 450g, 88033 - 2.5kg, 88041 - 20kg, 88082 - 202.5kg

**Intended Use: Multi-purpose Lithium Complex Lubricating Grease. Viscosity NLGI 2
Operating Range -40⁰ C to +280⁰ C. Maximum Continuous + 205⁰ C**

COMPANY IDENTIFICATION

**Supplier: Pro-Ma Systems (Aust) Pty Ltd
14 Kingston Drive
HELENSVALE QLD 9726**

Phone: (07) 5573 8111 Fax: (07) 5573 8122

EMERGENCY PHONE NUMBER

(07) 5573 8111 Follow advice for After Hours Calls

SECTION 2	HAZARDOUS IDENTIFICATION
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HAZARD CLASSIFICATION: HAZARDOUS SUBSTANCE: NON-DANGEROUS GOODS. Not classified as dangerous goods under the Globally Harmonised System (GHS)

Acute toxicity (oral, dermal, inhalation) [Category 5]

Eye irritation [Category 2B]

Reproductive toxicity (effects on or via lactation)

POISON SCHEDULE: NONE.

HAZARD STATEMENT(S):

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

PRECAUTIONARY STATEMENT(S):

P102 Keep out of reach of children

P103 Read label before use

P264 Wash hands thoroughly after handling



- P270 Do not eat, drink or smoke when using this product
- P280 Wear protective gloves/eye protection/face protection

HEALTH HAZARDS: None anticipated if used as directed. Operators should wear EYE PROTECTION or FACE SHIELD. HAND /SKIN CONTACT should be avoided by wearing impervious neoprene or PVC Gloves. Inspect and replace worn or damaged Gloves.

ENVIRONMENTAL HAZARDS: Data not available. Refer also Section 5 and 6 for spills or accidental release.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

Name	CAS#	Concentration*
Distillate Petroleum Grease, Extreme Pressure		>60%
Copper Powders	7440-50-8	
Lead Powders	7432-92-1	
Proprietary Additives		

CHEMICAL ENTITY: Solvent - An Extreme Pressure Grease Base, Proprietary Additives, Microscopic Copper and Lead powders. *All concentrations are percent by weight.

SECTION 4 FIRST AID MEASURES

INHALATION

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

SKIN CONTACT

Wash exposed area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

EYE CONTACT

Immediately irrigate with large quantities of water for at least 15 minutes. Eye lids should be held open while washing. Seek urgent medical attention.

INGESTION

Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

ADVICE TO DOCTOR

Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES**EXTINGUISHING MEDIA**

Foam, Carbon Dioxide or Chemical Powder. Water may be unsuitable as it can cause dangerous frothing and endanger firefighters.

FIRE FIGHTING

Combustible Liquid.

Hazardous Combustion Products: When burning may form toxic materials such as: Carbon Monoxide and Carbon Dioxide. Nitrogen Sulphur and Metal Oxides may be produced in some cases.

Unusual Explosion and Fire Procedure: If safe to do so remove containers from the path of the fire and keep cool with water spray. Firefighters should wear full protective clothing and self-contained breathing apparatus with a full-face piece and operated in the positive pressure mode.

FLAMMABILITY PROPERTIES

Flash Point: 204⁰ C Cleveland Open Cup

Flammable Limits (Approximate volume % in air):

Autoignition Temperature: Data not available.

SECTION 6 ACCIDENTAL RELEASE MEASURES**NOTIFICATION PROCEDURES**

In the event of a spill or accidental release, notify relevant Authorities in accordance with all applicable Regulations.

PROTECTIVE MEASURES

Avoid contact with the spilled material. See SECTION 5 for firefighting Information. See the Hazard Identification Section for SIGNIFICANT HAZARDS. see SECTION 4 for FIRST AID ADVICE. See SECTION 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

SPILL MANAGEMENT

Small Spills: Small spills may be absorbed into any absorbent material such as sand, soil or vermiculite.



Large Spills: Protective equipment should be used to protect skin, eyes and respiratory system. Stop liquid at the source. Dike area to prevent spreading and to avoid it entering sewage or normal waterways. Pump the liquid to a salvage tank. Absorb remaining material with a suitable absorbent (sand, soil etc.) for later disposal.

ENVIRONMENTAL PRECAUTIONS

Do not allow this product to enter drains, waterways and sewers.

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE

Store in a cool space and out of direct sunlight. Keep containers tightly closed when not in use. Keep away from heat and fire.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	OSHA		ACGIH		Note	Year
	TWA	STEL	TWA	STEL		
Oil Mists	5mg/M3		0.2mg/M3			

NOTE: Limits/standards shown for guidance only. ACGIH TWA is for dry powders only. Biological limits: Data not available

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special controls needed other than normal industrial hygiene.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based on intended, normal usage.

Respiratory Protection: if engineering controls do not maintain airborne contaminants at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered with this material include:

Data not available.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacture data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. Types of hand protection to be considered for this material include;

Skin contact should be avoided by wearing impervious neoprene or PVC gloves.

Eye Protection: Eyes should be protected by chemical goggles or safety glasses fitted with side shields.

Skin and Body Protection: Any specific clothing information is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

Skin contact should be avoided by wearing impervious clothing and work boots.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Semi-Solid — Temperature sensitive

Colour: Dark Grey

Odour: Normal Grease

Odour Threshold: Data not available

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

Density: 1.36 Specific Gravity @ 15.5 °C

Flash Point: Open Cup 204⁰C, (Cleveland)

Flammable Limits: (Approx. volume % in air): USA ACGIH TLV 0.2mg/m³ air for powders

Autoignition Temperature: 204⁰C

Boiling Point/Range: 371⁰C

Vapour Density (Air = 1): Non-Volatile

Vapour Pressure at 20⁰C: Data not available

Evaporation Rate (n-butyl acetate = 1): Data not available pH:

Data not available

Log Pow(n-Octanol/Water Partition Coefficient): Data not available

Solubility in Water: Insoluble
 Viscosity: NLGI-2
 Oxidising Properties: See Hazards Identification Section

OTHER INFORMATION

Freezing Point: Below -40⁰
 Melting Point: Data not available
 Pour Point: Data not available

SECTION 10	STABILITY AND REACTIVITY
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STABILITY: Stable
CONDITIONS TO AVOID: Data not available
INCOMPATIBLE MATERIALS: Oxidising Agents
HAZARDOUS DECOMPOSITION PRODUCTS: Data not available
HAZARDOUS REACTIONS: Cannot occur

SECTION 11	TOXICOLOGICAL INFORMATION
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ACUTE TOXICITY

Route of Exposure	Conclusion/Remarks
Inhalation	
Toxicity (Rat) LC50	Data not available
Irritation	Data not available
Ingestion	
Toxicity (Rat): LD50	Data not available
Skin	
Toxicity (Rabbit): LD50	Data not available
Irritation (Rabbit)	Data not available
Eye	
Irritation (Rabbit)	Data not available

CHRONIC/OTHER EFFECTS

On the skin: Contact with the eye may result in mild irritation.
On the eye: A mild eye irritant. May cause redness, tearing or blurred vision.

Inhalation: Not normally a consideration with due to the low vapour pressure of this product at ambient temperatures.

Swallowing: May irritate the intestinal tract causing irritation and vomiting.

Sensitisation: Data not available.

SECTION 12	ECOLOGICAL INFORMATION
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The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY: Data not available.

MOBILITY: data not available.

PERSISTENCE AND DEGRADABILITY

Biodegradation: Data not available.

Components — Data not available

Base Oil component — Data not available

ECOLOGICAL DATA: Data not available

SECTION 13	DISPOSAL CONSIDERATIONS
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Disposal recommendations based on the material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at the time of disposal.

DISPOSAL RECOMMENDATIONS: Refer to state Waste Management Authority.

SECTION 14	TRANSPORT INFORMATION
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U.N. Number: None Allocated

Proper Shipping Name: None Allocated Dangerous Goods

Class: Non-Hazardous

Subsidiary Risk: Not Applicable

Hazchem Code: Non-Hazardous

Poison Schedule: Not Scheduled

Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road and rail.

SECTION 15	REGULATORY INFORMATION
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Product classified as NON-HAZARDOUS according to NOHSC guidelines.

Product classified as NON-DANGEROUS according to Australian Dangerous Goods Code

See Section 2 for Risk and Safety phrases if applicable.

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Complies with the following national/regional chemical inventory requirements: AICS

SECTION 16	OTHER INFORMATION
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KEY TO ABBREVIATIONS AND ACCRONYMS:

N/D = Not determined, N/A -Not applicable, STEL = Short Term Exposure Limit, TWA= Time Weighted Average.

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision 1: 11 February 2018

- Update wording in Hazard Classification (Section 2) to reflect GHS compliance
- Update wording from "Risks R36/R37/R38" to reflect GHS compliant Hazard Statements and Precautionary Statements
- No pictogram required

The information and recommendations contained herein are, to the best of Pro-Ma Systems (Aust) Pty Ltd's knowledge and belief, accurate and reliable as of the date issued. The information and recommendations are offered for the User's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use.

Date of preparation 11 February 2018.

CONTACT POINT

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END OF SDS.