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MAGNALUBE[®]-G
MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Trade Name: Magnalube-G

Product Description: Lubricating Grease

Product Numbers: MGPP, MG75, MG145, MG1LB, MG5LB, MG35LB, MG120LB, MG400LB

Product Use: Lubricating Grease

Manufacturer: Magnalube, Inc.
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Date of Last Issue: March 5th, 2013

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient Name: Highly Refined Mixture: Lubricating Oils, Petroleum, Base Oils

CAS No.	Weight
See full list below (***)	76-80 %

Ingredient Name: Organic Polyurea Thickener, Proprietary PTFE Thickener
 (TSCA proprietary compound EPA file # 26847 Non-Hazardous)

CAS No.	Weight
ACC26847 9002-84-0	20-24%

Composition Comments: Refer to section eight (8) for exposure limits on ingredients. Chemical ingredients not regulated by OSHA or SARA are proprietary and treated confidentially.

(***) The base oil for this product can be a mixture of any of the following: CAS 72623871; CAS 64741975; CAS 64742014; CAS 64742525; CAS 64741953; CAS 64742536; CAS 64741884; CAS 64742547; CAS 64742558; CAS 64742569; CAS 64742570; CAS 64741895; CAS 64741964; CAS 64742627; CAS 64742638; CAS 64742650; CAS 72623837; CAS 72623859; CAS 72623860.

CANADA:

<u>Name</u>	<u>CAS No.</u>	<u>Percentage</u>
Mineral Oil	Mixture	80-90

MEXICO:

<u>Name</u>	<u>CAS No.</u>	<u>UN No.</u>	<u>Percentage</u>	<u>IDLH</u>	<u>Classification</u>
					<u>H</u> <u>F</u> <u>R</u>
Mineral Oil	Mixture	Not Available	80-90	2500 mg/m ³	1 1 0

The petroleum base oils contained in this product have been highly refined by a variety of processes including: Solvent extraction, solvent dewaxing and hydrotreating to remove aromatics and improve performance characteristics.

Carcinogenicity: All petroleum base oils contained in this product meet the IP 346 criteria of less than 3 percent DMSO extractable PAH's and are not considered carcinogens by IARC, NTP or OSHA.

SECTION 3: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 84.5%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 98.1%

GHS LABEL ELEMENTS:

Signal Word: Warning

Hazard Statements: Causes skin irritation, serious eye irritation

PRECAUTIONARY STATEMENTS:

Prevention: Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after handling.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: Not applicable.

Disposal: Not applicable.

Symbol:



Other hazards which do not result in classification: Not available.

SECTION 4: FIRST AID MEASURES

EYES: Remove contact lenses, if any. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Get medical attention immediately.

INGESTION: Wash out mouth with water. Remove dentures if any. Bring victim to a fresh air environment and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give them small amounts of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4: FIRST AID MEASURES (CONTINUED)

INHALATION: Bring victim to fresh air and keep at rest in a position comfortable for breathing. If victim is displaying abnormal breathing, not breathing, or if respiratory arrest occurs, supply them with artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects continue or become severe. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If unconscious, place victim in recovery position and get medical attention immediately!

SKIN: In case of contact, immediately flush contaminated skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if any discomfort continues.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

POTENTIAL ACUTE HEALTH EFFECTS:

Inhalation: There are no significant effects or critical hazards known.

Ingestion: Irritating to mouth, throat and stomach.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

OVER-EXPOSURE SIGNS/SYMPTOMS:

Inhalation: No specific data.

Ingestion: No specific data.

Skin: Adverse symptoms may include the following: Irritation, redness.

Eyes: Adverse symptoms may include the following: Pain or irritation, watering, redness.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

Specific Treatments: No specific treatment.

Notes to Physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Protection of First-Aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

SECTION 5: FIRE FIGHTING MEASURES

Flammability of the product: No specific fire or explosion hazard.

Flash Point: (°C) 210 (410°F) Cd OC (Cleveland open cup).

Auto Ignition Temperature: (°C) N/A

Flammability Limit - Lower(%): N/D

Flammability Limit - Upper(%): N/D

EXTINGUISHING MEDIA:

Suitable: Use an extinguishing agent suitable for the surrounding fire.

Not suitable: None known.

Special Exposure Hazards: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous Thermal Decomposition Products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides.

Special Protective Equipment for Firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special Fire Fighting Procedures: Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources.

Unusual Fire & Explosion Hazards: Pressure will increase in over heated, closed containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Do not take action involving any personal risk or without proper training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear an applicable respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions: Avoid dispersal of spilled material, overflow, and contact with soil, waterways, drains and sewers. Notify the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Assure conformity with applicable government regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES (CONTINUED)

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Spill Clean-Up Procedures: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

See section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Wear appropriate personal protective equipment (see Section 8). Prohibit any eating, drinking, and smoking in areas where this material is handled, stored, and processed. If air contamination is above accepted level, use approved respirator. Keep lid closed when material is not in use. Do not store or mix with strong oxidizers. Avoid contact with eyes, skin, and clothing. Do not reuse container, even after material has been exhausted, as empty containers can retain product residue and can compromise the quality of use.

Handling Description: Prevent small spills and leakages to avoid slip hazard.

Storage Precautions: Store in agreement with local regulations. Store in original container protected from direct sunlight in a cool, dry, and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame. Keep container tightly sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage Criteria: Chemical storage.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS/OCCUPATIONAL EXPOSURE LIMITS:

<u>Ingedient</u>	<u>Exposure Limits</u>
Mineral Oil	ACGIH TLV (United States, 2/2010). TWA: 5 mg/m ³ 8 hour(s). Form: Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract. NIOSH REL (United States, 6/2009). TWA: 5 mg/m ³ 8 hour(s). Form: Mist OSHA PEL (United States, 11/2006). TWA: 5 mg/m ³ 8 hour(s).

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONTINUED)

CANADA:

Ingedient

Occupational Exposure Limits

Mineral Oil **US ACGIH 2/2010.** TWA: 5 mg/m³ 8 hour(s). Form: Inhalable fraction
AB 4/2009. TWA: 5 mg/m³ 8 hour(s). STEL: 10 mg/m³ 15 minute(s). Form: Mist
ON 7/2010. TWA: 5 mg/m³ 8 hour(s). STEL: 10 mg/m³ 15 minute(s). Form: Mist
QC 6/2008. TWA: 5 mg/m³ 8 hour(s). STEL: 10 mg/m³ 15 minute(s). Form: Mist

MEXICO:

Ingedient

Occupational Exposure Limits

Mineral Oil **NOM-010STPS (Mexico, 9/2000).** LMPE-PPT: 5 mg/m³ 8 hour(s). Form: Mist
LMPE-CT: 10 mg/m³ 15 minute(s). Form: Mist

PROTECTIVE EQUIPMENT:

Gloves and protective eyewear recommended.

Engineering Controls: Use engineering controls to reduce air contamination to permissible exposure level.

Eye Protection: Wear splash-proof eye goggles to prevent any possibility of eye contact.

Protective Clothing: Wear appropriate clothing to prevent repeated or prolonged skin contact.

Protective Gloves: Chemical resistant gloves recommended to prevent prolonged or repeated contact.

Respirators: No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hygienic Work Practices: Wash at the end of each work shift and before eating, smoking and using the toilet.

Ventilation: No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

INDIVIDUAL PROTECTION MEASURES:

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products and before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory Protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONTINUED)

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye Protection: Safety eye wear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Physical State: Grease (semi-solid).

Color: Green.

Odor: Mild (or faint) Petroleum oil.

Solubility Description: Insoluble in water.

Specific Gravity/Density: 0.8880 g/cm³

pH-Value: Not applicable.

Flash Point: Not applicable.

Lower and Upper Explosive (Flammable) Limits: Not applicable.

Vapor Pressure: Not applicable.

Auto-Ignition Temperature: Not applicable.

Decomposition Temperature Viscosity: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Stability: The product is stable.

Conditions To Avoid: Contact with acids and oxidizing substances.

Hazardous Polymerization: Will not occur.

Polymerization Description: Not applicable.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:

Inhalation: No known significant effects or critical hazards.

Ingestion: Irritating to mouth, throat and stomach.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Inhalation: No specific data.

Ingestion: No specific data.

Skin contact: Adverse symptoms may include the following: irritation, redness.

Eye contact: Adverse symptoms may include the following: pain or irritation, watering, redness.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE ACUTE TOXICITY:

• **ACUTE TOXICITY:**

<u>Product/Ingredient Name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Mineral Oil	LD Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary: No known significant effects or critical hazards.

• **IRRITATION/CORROSION:**

<u>Product/Ingredient Name</u>	<u>Result</u>	<u>Species</u>	<u>Score</u>	<u>Exposure</u>	<u>Exposure</u>
Distillates (petroleum), hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit	-	500mg	-

Conclusion/Summary:

Skin: May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Eyes: May cause eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Respiratory: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

SENSITIZATION CONCLUSION/SUMMARY:

Skin: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.

Respiratory: Sensitization not suspected for humans.

POTENTIAL CHRONIC HEALTH EFFECTS:

General: There are no significant effects or critical hazards.

Inhalation: There are no significant effects or critical hazards.

Ingestion: There are no significant effects or critical hazards.

Skin Contact: There are no significant effects or critical hazards.

Eye Contact: There are no significant effects or critical hazards.

Carcinogenicity: There are no significant effects or critical hazards.

Mutagenicity: There are no significant effects or critical hazards.

Teratogenicity: There are no significant effects or critical hazards.

Developmental Effects: There are no significant effects or critical hazards.

Fertility Effects: There are no significant effects or critical hazards.

CHRONIC TOXICITY:

Conclusion/Summary: Contains material that may cause target organ damage, based on animal data.

CARCINOGENICITY:

Conclusion/Summary: There are no data available on the preparation itself. Carcinogenicity not suspected for humans.

MUTAGENICITY:

Conclusion/Summary: There are no data available on the preparation itself. Carcinogenicity not suspected for humans.

TERATOGENICITY:

Conclusion/Summary: There are no data available on the preparation itself. Carcinogenicity not suspected for humans.

REPRODUCTIVE TOXICITY:

Conclusion/Summary: There are no data available on the preparation itself. Not considered to be dangerous to humans, according to our database.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): Not available.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): Not available.

ASPIRATION HAZARD: Not available.

NUMERICAL MEASURES OF TOXICITY/ACUTE TOXICITY ESTIMATES: Not available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Not readily biodegradable.

AQUATIC AND TERRESTRIAL TOXICITY:

Conclusion/Summary: There is no data available on the preparation itself.

PERSISTENCE/DEGRADABILITY:

Conclusion/Summary: This product has not been tested for biodegradation. This product is not expected to bioaccumulate through food chains in the environment.

<u>Product/Ingredient Name</u>	<u>Aquatic Half-Life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
Magnalube	–	–	Not readily

BIOACCUMULATIVE POTENTIAL: Not available.

MOBILITY IN SOIL:

Soil/Water Partition coefficient (KOC): Not available.

Other Adverse Effects: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: The generation of waste should be avoided or minimized wherever possible.

Significant amounts of waste product residues should not be disposed through the foul sewer, but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

DOT Hazard Class: Not regulated.

Reportable Quantity (RQ): No.

TDGR Class: Not regulated.

SECTION 14: TRANSPORT INFORMATION (CONTINUED)

IMDG Class: Not regulated.

Sea Transport Notes: Not regulated per IMDG.

Air Transport Notes: Not regulated per IATA.

SECTION 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations Specific for the Product: No known specific national and/or regional regulations applicable to this product (including its ingredients).

US FEDERAL REGULATIONS:

COMPONENT: Lubricating Oils, Petroleum, Base Oils, Highly Refined Mixture (***)

SARA 302	CERCLA	SARA 313
No	No	No

COMPONENT: Organic Polyurea Thickener (TSCA Accession #26847)

SARA 302	CERCLA	SARA 313
No	No	No

Regulatory Status: Not regulated under SARA 302, SARA 313 or CERCLA.

STATE REGULATIONS:

Connecticut Carcinogen Reporting: None of the components are listed.

Connecticut Hazardous Material Survey: None of the components are listed.

Florida Substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.

Louisiana Reporting: None of the components are listed.

Louisiana Spill: None of the components are listed.

Massachusetts Spill: None of the components are listed.

Massachusetts Substances: None of the components are listed.

Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed.

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.

SECTION 15: REGULATORY INFORMATION (CONTINUED)

New Jersey Hazardous Substances: None of the components are listed.

New York Acutely Hazardous Substances: None of the components are listed.

New York Toxic Chemical Release Reporting: None of the components are listed.

Pennsylvania RTK Hazardous Substances: None of the components are listed.

Rhode Island Hazardous Substances: None of the components are listed.

California Prop. 65: None of the components are listed.

Workplace Hazardous Materials Information System - WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

INTERNATIONAL REGULATIONS:

International Lists:

- Australia Inventory (AICS):** Not determined.
- China Inventory (IECSC):** Not determined.
- Japan Inventory:** Not determined.
- Korea Inventory:** Not determined.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines Inventory (PICCS):** Not determined.
- United States Inventory (TSCA 8b):** Not determined.
- Europe Inventory:** Not determined.
- Canada Inventory:** Not determined.

CONTROLLED PRODUCT:

Classification: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

RISK PHRASES:

Risk Phrases Applicable in the European Union (EU): Classification per manufacturer.
R-52 Harmful to aquatic organisms.

SECTION 16: OTHER INFORMATION

HISTORY:

Date of Issue/Date of Revision: 03/05/2013.

Date of Previous Issue: No previous validation.

Version: 1

Regulatory Department, Magnalube, Inc.

KEY TO ABBREVIATIONS:

ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labeling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = Logarithm of the octanol/water partition coefficient **MARPOL 73/78** = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

NFPA-HMIS HAZARD RATING:

Health: Irritation, minor residual injury (1) - HMIS/NFPA

Flammability: Burns only if pre-heated (1) - HMIS/NFPA

Reactivity: Normally Stable (0) - HMIS/NFPA

NPCA HMIS Hazard Index: Slight; Slightly Toxic - May cause slight irritation (1).

Personal Protection Index: B - Safety Eyewear and Gloves

NPCA HMIS Flammability Index: Burns only if pre-heated (1).

Tariff Code (Schedule B): 2710.19.3750 Lubricating greases, with or without additives.

REVISION COMMENTS:

Prepared By: Compliance

Replacement of MSDS generated: January 11th, 2010

Date: March 5th, 2013

Disclaimer: *While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the company makes no warranty with respect thereto and disclaims all liability from reliance therein.*