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MAGNALUBE®-GX

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Magnalube-GX

Product Description: Lubricating Grease

Product Numbers: MGX145, MGX1LB, MGX5LB, MGX35LB, MGX120LB, MGX400LB

Product Use: Lubricating Grease

Manufacturer:

Magnalube, Inc.

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Date of Last Issue: March 3rd 2014

2. COMPOSITION AND INFORMATION ON INGREDIENTS

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

CAS No.	WEIGHT
See full list below (***)	70-85 %

Ingredient Name: *OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT

CAS No.	WEIGHT
7620-77-1	7-13%

Ingredient Name: CARBONIC ACID CALCIUM SALT (COMMON NAME: CALCIUM CARBONATE)

CAS No.	WEIGHT
471-34-1	3-7%

Ingredient Name: *PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, *ZINC SALTS

CAS No.	WEIGHT
68649-42-3	1-5%

Ingredient Name: *MOLYBDENUM SULFIDE (MoS₂)

CAS No.	WEIGHT
1317-33-5	1-5%

Ingredient Name: *ANTIMONY DIALKYLDITHIOCARBAMATE

CAS No.	WEIGHT
(NJTSRN 800983-5015P OR CAS#15890-25-2)	< 0-0.5 %

Proprietary

Ingredient Name: Proprietary PTFE Thickener

Composition Comments: Refer to section eight for exposure limits on ingredients. Chemical ingredients not regulated by OSHA, SARA, state or federal agencies are treated confidentially.

* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

(**) The base oil for this product can be a mixture of any of the following: CAS 64741-96-4; CAS 64741-97-5; CAS 72623-85-9; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-54-7; CAS 64742-55-8; CAS 64741-88-4; CAS 64742-56-9; CAS 72623-87-1; CAS 64742-57-0; CAS 64742-62-7; CAS 64742-63-8; CAS 64741-89-5; CAS 64742-65-0; CAS 72623-83-7; CAS 72623-86-0.

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 PAH's and are not considered carcinogens by IARC, NTP or OSHA.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Not regarded as a health hazard under current legislation.

Carcinogenicity: IARC: Not listed as a Group 1, 2A, or 2B agent. OSHA: Not regulated. NTP: Not listed.

Eyes: May be slightly irritating to eyes.

Ingestion: May cause stomach pain or vomiting.

Inhalation: Inhalation hazard at room temperature is unlikely due to the low volatility of this product. Heating can generate vapors that may cause respiratory irritation, nausea and headaches.

Sensitization: No known information.

Skin: Prolonged or repeated contact leads to drying of skin.

Teratogenicity: No known information.

HEALTH WARNINGS:

Eye Contact: Slightly irritating.

Ingestion: Can cause stomachache and vomiting.

Inhalation: Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

Skin Contact: Repeated or prolonged contact can result in drying of the skin.

Route of Entry: Inhalation. Skin and/or eye contact. Ingestion.

4. FIRST AID MEASURES

Eyes: Rinse with water. Contact physician if discomfort continues.

Ingestion: Get medical attention immediately! If vomiting occurs, lean forward to reduce the risk of aspiration.

Inhalation: Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury

5. FIRE FIGHTING MEASURES

Flash Point: (°C) 232 (450°F) Cd OC (Cleveland open cup).

Flammability Limit - Lower(%): N/D

Flammability Limit - Upper(%): N/D

Extinguishing Media: Water spray, fog or mist. Foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc.

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. Dike for water control.

Unusual Fire & Explosion Hazards: Volume and pressure increases strongly when heated. Risk of container explosion in fire.

Hazardous Combustion Products: Acrid smoke/fumes. Oxides of: Carbon. Nitrogen. Sulfur.

Protective Measures In Case of Fire: Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Minimize skin contact.

Precautions To Protect The Environment: Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

Spill Clean-Up Procedures: Provide good ventilation. Use appropriate protective clothing. Carefully collect spilled material in closed containers and leave for disposal according to local regulations. Do not let washing down water contaminate ponds or waterways. Rinse area with water.

7. HANDLING AND STORAGE

Handling Precautions: Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Containers should be kept tightly closed. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place.

Storage Precautions: Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing materials.

Storage Criteria: Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

STD	TWA	STEL
OSHA	5 mg/m3 (oil mist)	
ACGIH	5 mg/m3 (oil mist)	10 mg/m3 (oil mist)

Component: CARBONIC ACID CALCIUM SALT (COMMON NAME: CALCIUM CARBONATE)

STD	TWA	STEL
OSHA	10 mg/m3 (total) 5 mg/m3 (resp)	
ACGIH	10 mg/m3	

Component: MOLYBDENUM SULFIDE (MoS₂)

STD	TWA	STEL
OSHA	N/E	
ACGIH	3 mg/m3 (resp) as Mo	10 mg/m3 (ihl) as Mo

Component: ANTIMONY DIALKYL DITHIOCARBAMATE (NJTSRN 800983-5015P OR CAS# 15890-25-2)

STD	TWA	STEL
OSHA	0.5 mg/m3 as Sb	
ACGIH	0.5 mg/m3 as Sb	

PROTECTIVE EQUIPMENT:

Gloves and protective eyewear recommended.

Eye Protection: Use eye protection.

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

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

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

Protective Gloves: Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Grease.

Color: Grey.

Odor: Mild (or faint).

Solubility Description: Insoluble in water.

Density: 0.90

Temperature: (°C) 15.6 (60°F)

Vapor Density (air=1): > 5

Vapor Pressure: < 0.1 mmHg

Temperature: (°C) 20 (68°F)

Evaporation: Rate <1

Reference: BuAc=1

pH-Value, Conc. Solution: N/A

10. STABILITY AND REACTIVITY

Stability: Normally stable.

Conditions to Avoid: Avoid contact with acids and oxidizing substances.

Hazardous Polymerization: Will not polymerize.

Hazardous Decomposition Products: Oxides of: Carbon. Phosphorus. Sulfur.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: No experimental toxicological data on the preparation as such is available.

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

Toxicological Data: Carcinogenicity. IP 346 <3%

Toxic Dose - LD 50: > 5000 mg/kg (oral rat)

Toxic Dose - LD 50 SKIN: > 2000 mg/kg (skn rbt)

Toxic Conc. - LC 50: No Information Available (NIA).

COMPONENT: OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT

Toxic Dose - LD 50: No Information Available (NIA).

Toxic Conc.. - LC 50: No Information Available (NIA).

COMPONENT: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

Toxic Dose - LD 50: 4739 mg/kg (oral rat)

Toxic Dose - LD 50 SKIN: > 2000 mg/kg (skn rbt)

12. ECOLOGICAL INFORMATION

Ecological Information: No data on possible environmental effects have been found.

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

COMPONENT: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

Ecotoxicological Data: WGK 2

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT Hazard Class: Not regulated.

Reportable Quantity (RQ): No.

Sea Transport Notes: Not regulated per IMDG.

Air Transport Notes: Not regulated per IATA.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS:

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

SARA 302

No

CERCLA

No

SARA 313

No

COMPONENT: OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT

SARA 302

No

CERCLA

No

SARA 313

No

COMPONENT: CARBONIC ACID CALCIUM SALT (COMMON NAME: CALCIUM CARBONATE)

SARA 302

No

CERCLA

No

SARA 313

No

COMPONENT: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

SARA 302

No

CERCLA

SARA 313

N982 - Zn

COMPONENT: MOLYBDENUM SULFIDE (MoS₂)

SARA 302

No

CERCLA

No

SARA 313

No

COMPONENT: ANTIMONY DIALKYL DITHIOCARBAMATE (NJTSRN 800983-5015P OR CAS# 15890-25-2)

SARA 302

No

CERCLA

SARA 313

N010 - Sb

Regulatory Status: ***** Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.

CLEAN AIR ACT:**SARA hazard Categories:** Acute Chronic**US STATE REGULATIONS:****COMPONENT:** Lubricating Oils, Petroleum, Base Oils, Highly Refined Mixture (***)

CA	MA	FL	MN	NJ	PA	RI
				Yes	Yes	

COMPONENT: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

CA	MA	FL	MN	NJ	PA	RI
			Yes	Yes	EH	

COMPONENT: MOLYBDENUM SULFIDE (MoS₂)

CA	MA	FL	MN	NJ	PA	RI
				Yes		

COMPONENT: ANTIMONY DIALKYLDITHIOCARBAMATE (NJTSRN 800983-5015P OR CAS# 15890-25-2)

CA	MA	FL	MN	NJ	PA	RI
			Yes		EH	

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.

LABEL(S) FOR SUPPLY:**CONTROLLED PRODUCT CLASSIFICATION:** D2B - Irritating and/or Chronically Toxic Materials**Risk phrases:** R-20/22 Harmful by inhalation and if swallowed.

R-36/37/38 Irritating to eyes, respiratory system and skin.

R-51/53 Toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment

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

CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

COMPONENT: OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT

CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
DSL	Yes	EINECS	Yes	2-1416	Yes	Yes	Yes

COMPONENT: CARBONIC ACID CALCIUM SALT (COMMON NAME: CALCIUM CARBONATE)

CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
DSL	Yes	EINECS	Yes	1-122	Yes	Yes	Yes

COMPONENT: PHOSPHORODITHIOIC ACID, O, O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

COMPONENT: MOLYBDENUM SULFIDE (MoS₂)

CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
DSL	Yes	EINECS	Yes	PRTR1	Yes	Yes	Yes

COMPONENT: ANTIMONY DIALKYL DITHIOCARBAMATE (NJTSRN 800983-5015P OR CAS# 15890-25-2)

CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
NPRI	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

CANADA (CEPA): All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

USA (TSCA): All components in this product are listed on the US Toxic Substances Control Act (TSCA) Inventory or are exempt from TSCA Inventory requirements.

CANADA (DSL): All components in this product are listed on the Canada Domestic Substances List (DSL) or are exempt from DSL requirements.

EUROPE (EINECS/ELINCS/NLP): All components in this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS), the European List of Notified Chemical Substances (ELINCS), or the No Longer Polymers (NLP) list, or are exempt from EU listing requirements.

PHILIPPINES (PICCS): All components in this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or are exempt from PICCS requirements.

AUSTRALIA (AICS): All components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt from AICS requirements.

CHINA (IECS): All components in this product are listed on the China Inventory of Existing Chemical Substances (IECS) or are exempt from IECS requirements.

16. OTHER INFORMATION**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

Date: March 28th 2014

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.