micromeritics®

SAFETY DATA SHEET

Magnalube-G

Date of Preparation: 06/19/2014

SDS #: 004-16163-00MSDS

SECTION 1: IDENTIFICATION

Product Identification: Magnalube-G
CAS Number: Not applicable
Other Designations: None
Volumes: None
Recommended Use: Lubricating base oil
Restrictions: For laboratory use only.
Supplier Information:

Micromeritics Instrument Corp.	Contact:	Human Resources
4356 Communications Drive	Phone:	(770) 662-3620
Norcross, GA 30093-2901 USA	Fax:	(770) 662-3696

Manufacturer: Saunders Enterprises, Inc. 11-51 44th Road, Long Island City, NY 11101
Emergency Health Information: (718) 729-1000, Emergency Spill Info: (718) 729-2628
Other Product Safety Info: (718) 729-2671

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Category 2 Skin corrosion/irritation, Category 2A Serious eye damage/eye irritation
Signal word: Warning
Hazard Statements:
H315: Causes skin irritation
H320: Causes eye irritation

Pictograms:

Precautionary Statements:
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+350: IF ON SKIN: Gently wash with soap and water
P337+313: If eye irritation persists get medical advice/attention

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	% wt
Lubricating Base Oil	*see below	78
Severely refined petroleum distillate (ACHIG-TLV-5Mg/M cubediomg/m3 (mist) ACGIH STEL)		
Organic Polyurea Thickener (TSCA propriety compound EPA file #26847 Non-Hazardous)		22
Teflon	9002-84-0	

*** The base oil may be a mixture of any of the following: CAS 64741884, CAS 6471895, CAS 6471964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, or CAS 72623837.**

Trace Impurities:

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	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
Ingredient	**TWA**	**STEL**	**TWA**	**STEL**	**TWA**	**STEL**	**IDLH**
Mineral Oil mist	5 mg/m^3	none estab.	5 mg/m^3	none estab.	none estab.	none estab.	none estab.

All the components of this material are on the toxic substances control act chemical substances inventory.

SECTION 4: FIRST-AID MEASURES

Inhalation: If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Eye Contact: No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.

Skin Contact: Remove contaminated clothing and shoes. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.

Ingestion: No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.

Note to Physicians: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

Potential Acute Health Affects
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.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability Classification: Classification (29 CFR 1910, 1200): Not classified by OSHA as flammable or combustible.
Extinguishing Media: CO_2, Dry Chemical, Foam and Water fog.
Combustion Products: Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous. Combustion may form oxides of calcium and H_2S incomplete. Combustion can produce carbon monoxide.
Fire-Fighting Instructions: This material will burn although it is not easily ignited.

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.

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.

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/PERSONAL PROTECTION

Engineering Controls:

Ventilation: Use a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits.

Administrative Controls:

Respiratory Protection: No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended mineral oil mist exposure limits. If not wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material. Use the following elements for air-purifying respirators: particulate.

Personal Protective Equipment:

Eye/Face Protection: No special eye protection is normally required.
Skin Protection: Wear protective clothing if engineering controls or work practices are not adequate to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include: (nitrile) (viton) (silver shield).

General Considerations: Consider the potential hazards of this material (see hazards identification), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: -455 °F (-235 °C)
Flash Point Method: CCC
Burning Rate: N/A
Autoignition Temperature: NDA
LEL: N/A
UEL: N/A

Physical State: Green Grease
Appearance and Odor: NDA
Odor Threshold: NDA
Vapor Pressure: NDA
Vapor Density (Air=1): N/A
Formula Weight: N/A
Density: N/A
Specific Gravity 1.02 @ 15.5/15.6e
pH: NDA

Solubility: Soluble in hydrocarbon solvents; insoluble in water.
Other Solubilities: N/A
Boiling Point: NIDA
Freezing/Melting Point: NDA
Viscosity: -100 SUS @ 100F
Refractive Index: N/A
Surface Tension: N/A
% Volatile: N/A
Evaporation Rate: N/A

SECTION 10: STABILITY AND REACTIVITY

Stability: MAGNALUBE-G is stable.
Polymerization: Polymerization will not occur.
Chemical Incompatibilities: May react with strong oxidizing agents, such as chlorates, peroxides, etc.
Conditions to Avoid: No data available.
Hazardous Decomposition Products: No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Eye Effects: The eye irritation hazard is based on data for a similar material.
Skin Effects: The skin irritation hazard is based on data for a similar material.
Acute Inhalation Effects: The acute respiratory toxicity is based on data for a similar material.
Additional Toxicology Information: This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA hazard communication standard (29 CFR 1910,1200). These oils have not been listed in the national toxicology program (NTR) annual report nor have they been classified by the international agency for research on cancer (IRAC) as; carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not Available
Environmental Fate: This material is not expected to be readily biodegradable.
Environmental Degradation: Not Available
Soil Absorption/Mobility: Not Available

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 Transportation Data (49 CFR 172.101):

Shipping Name: Not regulated
Shipping Symbols: Not Applicable
Hazard Class: Not regulated
ID No.: Not regulated
Packing Group: Not Applicable
Label: Not Applicable
Special Provisions (172.102):

Not Applicable

Packaging Authorizations
a) Exceptions: Not Applicable
b) Non-bulk Packaging: Not Applicable
c) Bulk Packaging: Not Applicable

Quantity Limitations
a) Passenger, Aircraft, or Railcar: Not Applicable
b) Cargo Aircraft Only: Not Applicable

Vessel Stowage Requirements
a) Vessel Stowage: Not Applicable
b) Other: Not Applicable

Canadian TDG Hazard Class & PIN – Not regulated

SECTION 15: REGULATORY INFORMATION

SARA 311 Categories:

1. Immediate (acute) health effects: No
2. Delayed (chronic) health effects: No
3. Fire hazard: No
4. Sudden release of pressure hazard: No
5. Reactive hazard: No

USDA: U-2 Status: This product is acceptable to the USDA for use as a lubricant in official meat and poultry establishments provided there is no possibility of the lubricant or lubricated part contacting edible products.

SECTION 16: OTHER INFORMATION

Prepared By: Zuniga, A.
Revision Notes: Not Applicable
Additional Hazard Rating Systems: Not Applicable

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