

SAFETY DATA SHEET

Magnalube-G

Date of Preparation: 7/8/2019

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.
4356 Communications Drive
Norcross, GA 30093-2901 USA

Contact: Human Resources
Phone: (770) 662-3636
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:

SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

Aspiration Hazard – Category 1

Signal word: Danger

Hazard Statements:

H304: May be fatal if swallowed and enters airways

Pictograms:



Precautionary Statements:

P280: Wear protective gloves/protective clothing/eye protection/face protection

P301+310: IF SWALLOWED: call a POISON CENTER or doctor/physician

P302+350: IF ON SKIN: Gently wash with soap and water

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P305: IF EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 10 minutes. Get medical attention if irritation persists.

P331: Do NOT induce vomiting

P337+313: If eye irritation persists get medical advice/attention

P405: Store locked up

P501: Dispose of contents/container according to local/state/national/international regulations

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	% wt
Lubricating Base Oil	*see below	78
Severely refined petroleum distillate (ACHIG-TLV- mg/m ³ (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.

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. Keep at rest in a position comfortable for breathing. Get medical attention if coughing or respiratory discomfort occurs.

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Skin Contact: Remove contaminated clothing and shoes. Flush contaminated skin with plenty of water. Wash or clean contaminated clothing and shoes before reuse.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Note to Physicians: 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.

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 (solid, gas): Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge

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

Unsuitable Extinguishing Media: None known.

Specific Hazards Arising from the Chemical: no specific fire or explosion hazard.

Hazardous Thermal Decomposition Products: Carbon dioxide, carbon monoxide, sulfur oxides

Special Precautions for Firefighters: 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.

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.

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:

Small Spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Wear appropriate personal protective equipment (*see Section 8*). 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.

Advice on General Occupational Hygiene: Prohibit any eating, drinking, and smoking in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

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. Keep container tightly sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Storage Criteria: Chemical storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Mineral Oil mist	5 mg/m ³ (excluding vapor)	none estab.	5 mg/m ³ (IHL; excluding metal working fluids, pure highly and severely refined)	none estab.	5 mg/m ³	10 mg/m ³	5 mg/m ³

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.

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.

Eye/Face Protection: Safety eyewear 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin Protection:

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.

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

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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/Blue Grease

Appearance and Odor: Mild, Petroleum Oil

Odor Threshold: NDA

Vapor Pressure: NDA

Vapor Density (Air=1): N/A

Formula Weight: N/A

Density: 0.89 g/cm³

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: Kinematic (40°C (104°F)): >0.205 cm²/s

Refractive Index: N/A

Surface Tension: N/A

% Volatile: N/A

Evaporation Rate: N/A

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Stability: MAGNALUBE-G is stable.

Possibility of Hazardous Reaction: Will not occur under normal conditions of storage and use.

Polymerization: Polymerization will not occur.

Chemical Incompatibilities: No specific data.

Conditions to Avoid: No data available.

Hazardous Decomposition Products: Not Applicable.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Health Effects:

Inhalation: May be harmful or fatal if mist is inhaled.

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.

Aspiration Hazard:

Distillates (petroleum), solvent-dewaxed heavy paraffinic – Category 1

Chronic Effects:

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: Lungs

Specific target organ toxicity - repeated exposure: Lungs

Mutagenicity: No data available

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Ethene, 1,1,2,2-tetrafluoro-, homopolymer)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is Aldrich - 468096
Page 6 of 8 The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Teratogenicity: No data available

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 readily biodegradable

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 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 304.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: No SARA Hazards

Clean Air Act, Ozone Depleting Substances: This product does not contain nor was it manufactured with Class I or Class II ozone depleting substances as defined by the Clean Air Act Amendments of 1990.

Pennsylvania Right to Know Components:

Ethene, 1,1,2,2-tetrafluoro-, homopolymer CAS-No. 9002-84-0 Revision Date 1989-08-11

New Jersey Right to Know Components:

Ethene, 1,1,2,2-tetrafluoro-, homopolymer CAS-No. 9002-84-0 Revision Date 1989-08-11

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.

California Proposition 65: This product does not contain any Proposition 65 chemicals.

SECTION 16: OTHER INFORMATION

Prepared By: Zuniga, A.

Revision Notes:

Rev. A – Revision (03/27/03)

Rev. B – Revision (6/25/04)

Rev. C – Updated to new standard (10/24/14)

Rev. D – Updated to EU REACH standards (07/08/19)

Abbreviations Key:

CAS: Chemical Abstracts Service

GHS: Globally Harmonized System

OSHA: Occupational Safety and Health Act

PEL: Permissible Exposure Limit

ACGIH: American Conference of Government Industrial Hygienists

TLV: Threshold Limit Values

NIOSH: National Institute for Occupational Safety and Health

REL: Recommended Exposure Limit

TWA: Time Weighted Average

STEL: Short-Term Exposure Limit

IDLH: Immediately Dangerous to Life or Health

Literary References:

Sigma-Aldrich Polytetrafluoroethylene SDS

https://docs.wixstatic.com/ugd/381112_0b7c5f5438734049a5414cea749a8d7b.pdf

Additional Hazard Rating Systems: Not Applicable

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