



**Micromeritics Instrument Corp. and Micromeritics Analytical Services**  
 www.micromeritics.com                      www.particletesting.com  
 Surface Area - Porosity - Density - Particle Size, Shape & Count - Catalytic Activity - Surface Energy - Analytical Services

## Cover Sheet



INSTRUMENT CORPORATION  
 ONE MICROMERITICS DR.  
 NORCROSS, GA 30093-1877 U.S.A.

### MSDS MAGNALUBE-G

						DWN BY	J. Pittman
						ENGR	J. Mocny
						ENGR SIG	P. Hendrix
B	Revision	JAP	06/25/04		040265	HR SIG	J. Mocny
A	Revision	MD	03/27/03	JM	030185	QA SIG	A. Dovin
-	Formal Release	CB	08/6/01		010424	ES SIG	K. Massengill
REV	REVISION DESCRIPTION	BY	DATE	CHK	REL. NO.		

SIZE  
A

NUMBER

**004/16163/00MSDS**

PAGE  
X of 5

# Micromeritics Material Safety Data Sheet

Title : MAGNALUBE-G  
Date of Preparation : 06/25/04

MSDS No. : 004/16163/00MSDS  
Revision : B

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** MAGNALUBE-G

**Chemical Formula:** Lubricating base oil

**CAS Number:** See below

**Other Designations:**

**General Use:** Lubricating base oil.

<b>Supplier:</b>	Micromeritics Instrument Corp. 1 Micromeritics Dr. Norcross, GA 30093-1877 USA	<b>Contact:</b>	Human Resources Phone: (770) 662-3620 Fax: (770) 662-3696
------------------	--	-----------------	---

**Manufacturer:** Saunders Enterprises, Inc. 11-51 44<sup>th</sup> 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 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% vol
Lubricating Base Oil	* See Below	78%
Severely refined petroleum distillate		
ACHIG-TLV-5Mg/M cubediomg/m3 (mist) ACGIH STEL		
Organic Polyurea Thickener		22%
(TSCA propriety compound EPA file #26847 Non-Hazardous)		
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.

### COMPOSITION COMMENT

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

This product fits the ACHIG definition for mineral oil mist. The ACGIH TLV is 5Mg/m<sup>3</sup>. The OSHA PEL is 5 Mg/m<sup>3</sup>.

### Section 3 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

<b>HMIS</b>
<b>H</b> 1
<b>F</b> 1
<b>R</b> 0
<b>PPE†</b>
†Sec. 8

#### Potential Health Effects

**Primary Entry Routes:** N/A

**Target Organs:** N/A

#### Acute Effects

**Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit.

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Skin:** Contact with skin is not expected to cause prolonged or significant irritation. Skin contact may cause drying or defatting of the skin. Not expected to be harmful to internal organs if absorbed through the skin.

**Ingestion:** If swallowed, this substance is considered practically non-toxic to internal organs.

**Carcinogenicity:** See Toxicological Information.

**Signs and Symptoms of Exposure:** Skin defatting: May include drying and reddening of the skin.

**High-Pressure Equipment Information:** Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

### 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.

### Section 5 - Fire-Fighting Measures

**Flash Point:** -455 °F (-235 °C)

**Flash Point Method:** CCC

**Burning Rate:** N/A

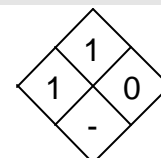
**Autoignition Temperature:** NDA

**LEL:** N/A

**UEL:** N/A

**Flammability Classification:** Classification (29 CFR 1910, 1200): Not classified by OSHA as flammable or combustible.

**NFPA**



**Extinguishing Media:** CO2, 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 H2S incomplete. Combustion can produce carbon monoxide.  
**Fire-Fighting Instructions:** This material will burn although it is not easily ignited.

## Section 6 - Accidental Release Measures

**Spill /Leak Procedures:**

Cleanup spills immediately, observing precautions in exposure controls/personal protection section.

## Section 7 - Handling and Storage

**Handling Precautions:** No special requirements

**Storage Requirements:** N/A

**Regulatory Requirements:** N/A

## 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

**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:** N/A

**Freezing/Melting Point:** NDA

**Viscosity:** -100 SUS @ 100F

**Refractive Index:** N/A

**Surface Tension:** N/A

**% Volatile:** N/A

**Evaporation Rate:** N/A

Micromeritics Instrument Corp. and Micromeritics Analytical Services

[www.micromeritics.com](http://www.micromeritics.com)

[www.particletesting.com](http://www.particletesting.com)

Surface Area - Porosity - Density - Particle Size, Shape & Count - Catalytic Activity - Surface Energy - Analytical Services

## 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

### Toxicity Data:

**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:** No Data Available.

**Environmental Fate:** This material is not expected to be readily biodegradable.

**Environmental Degradation:** NDA

**Soil Absorption/Mobility:** NDA

## Section 13 - Disposal Considerations

**Disposal:** Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your local environmental or health authorities for approved disposal or recycling methods.

### Section 14 - Transport Information

#### DOT Transportation Data (49 CFR 172.101):

**Transportation Information:**

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate dangerous goods regulations, for additional description requirements (e.g. technical name and mode-specific or quality specific shipping requirements).

**Shipping Name:** None

**Shipping Symbols:** N/A

**Hazard Class:** None

**ID No.:** None

**Packing Group:** None

Additional Info: Petroleum lubricating grease - not hazardous by US DOT. ADR/RID

Hazard class - Not applicable.

### Section 15 - Regulatory Information

<b>SARA 311 Categories:</b>	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

### Section 16 – Food Contact Status

**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 17 - Other Information

**NFPA Ratings: Health 1; Flammability 1, Reactivity 0,**  
**HMIS Ratings: Health 1; Flammability 1, Reactivity 0,**  
**(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE; - Personal Protection Equipment Index Recommendation – Chronic effect indicator).** These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (HWIS Ratings).

Abbreviations that may have been used in this document.

TLV – Threshold limit value

STEL – Short-term exposure limit

RQ – Reportable Quantity

C - Ceiling Limit

TWA – Time Weighted Average

TFQ – Threshold planning quantity

PEL – Permissible Exposure Limit

CAS – Chemical Abstract Service Number

**Micromeritics Instrument Corp. and Micromeritics Analytical Services**

[www.micromeritics.com](http://www.micromeritics.com)

[www.particletesting.com](http://www.particletesting.com)

Surface Area - Porosity - Density - Particle Size, Shape & Count - Catalytic Activity - Surface Energy - Analytical Services

A1-5 - appendix a Categories 0 - Change has been proposed  
NDA – No Data Available NA - Not applicable

**Prepared By:** C. Bills

**Revision Notes:** -

**Disclaimer:** *The above information is based on the data of which we are aware: and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon conditions that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.*