

## 1. COMPANY IDENTIFICATION

Microlon, Inc 2520 Longview St., Suite 313 Austin, TX 78705 MSDS Requests: (800) 962-4152	24 hr Emergency: Chemtrec (800) 424-9300
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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### 100% MICROLON HEAVY DUTY GREASE

The percentage compositions are given to allow for the various ranges of the components present in the whole product and may not equal 100%.

Components	Amount	Limit/Qty	Agency/Type
<b>LUBRICATING BASE OIL: Severly Refined Petroleum Distillate</b>			
	> 60%	5 mg/m <sup>3</sup>	ACGIH TWA
		10 mg/m <sup>3</sup>	ACGIH STEL
		5 mg/m <sup>3</sup>	OSHA PEL

The BASE OIL may be a mixtue of any of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650 or CAS 72623837.

ADDITIVES	< 20%		
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#### INCLUDING THE FOLLOWING:

<b>CALCIUM HYDROXIDE</b>			
CAS 1305620	20%	5 mg/m <sup>3</sup>	ACGIH TWA
		5 mg/m <sup>3</sup>	OSHA PEL

#### COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substance Inventory. This product fits the ACGIH definition fo rmineral oil mist.

The ACGIH TLV is 5 mg/m<sup>3</sup>, the OSHA PEL is 5 mg/m<sup>3</sup>.

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short Term Exposure Limit	TPQ - Threshold Planning Quantity
RQ - Reportable Quantity	PEL - Permissible Exposure Limit
C - Ceiling Limit	CAS - Chemical Abstract Service Number
A1-5 - Appendix A Categories	() - Change Has Been Proposed

## 3. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

**EYE:** This substance is not expected to cause prolonged or significant eye irritation.

**SKIN:** This substance is not expected to cause prolonged or significant skin irritation. The systemic toxicity of this substance has not been determined. However, it should be practically non toxic to internal organs if it gets on the skin. The hazard evaluation is based on data from similar materials.

**INGESTION:** The systemic toxicity of this substance has not been determined. However, it should be practically non toxic to internal organs if swallowed. This hazard evaluation is based on data from similar materials.

**INHALATION:** The systemic toxicity of this substance has not been determined. However, it should be practically non toxic to internal organs if inhaled. This hazard evaluation is based on data from similar materials.

#### **4. FIRST AID MEASURES**

**EYE:** No first aid procedures are required. However, as a precaution, flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

**SKIN:** No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

**INGESTION:** If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

**INHALATION:** Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.

#### **5. FIRE FIGHTING MEASURES**

##### **FLAMMABLE PROPERTIES**

**FLASH POINT (COC):** 392°F (195° C) Min

**AUTOIGNITION:** NDA

**FLAMMABILITY LIMITS:** (% by volume in air): Lower: NA Upper: NA

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, Dry Chemical, Foam, Water Fog

**NFPA RATINGS:** Health 1; Flammability 1; Reactivity 0.

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). 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 (for HMIS ratings).

**FIRE FIGHTING INSTRUCTIONS:** For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**COMBUSTION PRODUCTS:** Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous. Incomplete combustion can produce carbon monoxide.

#### **6. ACCIDENTAL RELEASE MEASURES**

This material is not expected to cause any environmental problems other than those associated with oil spills.

Clean up spills immediately.

#### **7. HANDLING AND STORAGE**

**CAUTION - DO NOT** use pressure to empty drum or drum may rupture with explosive force. **DO NOT** weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently.

#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

##### **PERSONAL PROTECTIVE EQUIPMENT**

**EYE/FACE PROTECTION:** No special eye protection is usually necessary.

**SKIN PROTECTION:** No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing.

**RESPIRATORY PROTECTION:** No special respiratory protection is normally required.

**ENGINEERING CONTROLS:** No special ventilation is necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL DESCRIPTION:</b>	Red Grease
<b>pH</b>	NDA
<b>VAPOR PRESSURE:</b>	NA
<b>VAPOR DENSITY (AIR=1)</b>	NA
<b>BOILING POINT:</b>	NA
<b>FREEZING POINT:</b>	NDA
<b>MELTING POINT:</b>	NDA
<b>SOLUBILITY:</b>	Soluble in hydrocarbon solvents; insoluble in water.
<b>SPECIFIC GRAVITY:</b>	NDA
<b>DENSITY:</b>	NDA
<b>EVAPORATION RATE:</b>	NA
<b>PERCENT VOLATILE (VOL):</b>	NA
<b>VISCOSITY</b>	22 cSt @ 100° C (Min.)

## 10. STABILITY AND REACTIVITY

**HAZARDOUS DECOMPOSITION PRODUCTS:** NDA

**CHEMICAL STABILITY:** Stable

**CONDITION TO AVOID:** NDA

**INCOMPATIBILITY WITH OTHER MATERIALS:** May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**HAZARDOUS POLYMERIZATION:** Polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** The Draize Eye Irritation Score (range, 0-110) in rabbits is 2.3/110.

**SKIN EFFECTS:** The Draize Skin Primary Irritation Score (range, 0-8) for a 4 hour exposure (rabbits) is 0.6/8.0. The dermal LD50 in rabbits is greater than 2.0g/kg.

**ACUTE ORAL EFFECTS:** No product toxicology data available. The hazard evaluation was based on data from similar materials.

**ACUTE INHALATION EFFECTS:** No product toxicology data available. The hazard evaluation was based on data from similar materials.

### 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 (29CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic to humans (Group 1), probably carcinogenic to humans (Groups 2A), or possibly carcinogenic to humans (Group 2B).

## 12. ECOLOGICAL INFORMATION

**ECOTOXICITY:** NDA

**ENVIRONMENTAL FATE:** This material is not expected to present any environmental problems other than those associated with oil spills.

## 13. DISPOSAL CONSIDERATIONS

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

## 14. TRANSPORT 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 quantity specific shipping requirements.

DOT SHIPPING NAME:	NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE FEDERAL DOT
DOT HAZARD CLASS:	NOT APPLICABLE
DOT IDENTIFICATION NUMBER:	NOT APPLICABLE
DOT PACKING GROUP:	NOT APPLICABLE

## 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. Reactivity Hazard:	NO

### REGULATORY LISTS SEARCHED:

01 = SARA 313	11 = NJ RTK	21 = TSCA Sect 4(e)
02 = MASS RTK	12 = CERCLA 302.4	22 = TSCA Section 5(a) (e) (f)
03 = NTP Carcinogen	13 = MN RTK	23 = TSCA Sect 6
04 = CA Prop 65-Carcin	14 = ACGIH TWA	24 = TSCA Sect 12(b)
05 = CA Prop 65-Repro Tox	15 = ACGIH STEL	25 = TSCA Sect 8(a)
06 = IARC Group 1	16 = ACGIH Calc TLV	26 = TSCA Sect 8(d)
07 = IARC Group 2A	17 = OSHA PEL	
08 = IARC Group 2A	18 = DOT Marine Pollutant	28 = CANADIAN WHMIS
09 = SARA 302/304	19 = Chevron TWA	29 = OSHA CEILING
10 = PA RTK	20 = EPA Carcinogen	30 = Chevron STEL

The following components of this material are found on the regulatory lists indicated.

SEVERELY REFINED PETROLEUM DISTILLATE is found on lists: 14, 15, 17.

## 16. OTHER INFORMATION

**REVISION STATEMENT:** This Material Safety Data Sheet has been revised to comply with the ANSI Z400.1 Standard. Changes have also been made throughout this Material Safety Data Sheet. Please read the entire document.

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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 modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.