

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 Assembly Lube

Components	Amount	Limit/Qty	Agency/Tp
LUBRICATING BASE OIL: Severly Refined Petroleum Distillate			
	> 70%	5 mg/m ³	ACGIH TWA
		10 mg/m ³	ACGIH STEL
		5 mg/m ³	OSHA PEL

The BASE OIL may be a mixture of any of the following: CAS 64741884, CAS 64741895, CAS 6471964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650 or CAS72623837.

LITHIUM BASE THICKENERS:	< 10.0%
ADDITIVES:	< 20.0%

COMPOSITION COMMENT:

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

The ACGIH TLV is 5 mg/m³, the OSHA PEL is 5 mg/m³.

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. If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

High Pressure Equipment Information: Accidental high velocity injection under the skin of material 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.

INGESTION: The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed.

INHALATION: The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if inhaled.

4. FIRST AID MEASURES

EYE: No First Aid procedures are required. However, as a precaution, flush eyes with fresh water for 15 minutes or until irritation subsides. 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: Do not induce vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

INHALATION: Vapor pressure is very low and inhalation at room temperature is not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician.

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 in the palm of the hand.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT (COC): 400° F

AUTOIGNITION: NDA

FLAMMABILITY LIMITS: (% by volume in air): Lower: 0.9% Upper 7.0%

EXTINGUISHING MEDIA: CO₂, 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: Cool exposed containers with water. Use air-supplied breathing equipment for enclosed or confined spaces.

COMBUSTION PROPERTIES: 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

Clean up spills immediately, observing precautions in Exposure Controls/Personal Protection Section.

Scrape up grease, wash remainder with suitable petroleum solvent or add absorbent. Keep petroleum products out of sewers and water courses. Advise authorities if product has entered or may enter sewers and water courses.

7. HANDLING AND STORAGE

ELECTROSTATIC ACCUMULATION HAZARD: NDA

STORAGE TEMPERATURE, DEG. C:

LOADING/UNLOADING TEMPERATURE, DEG. C: Ambient Temperature

STORAGE/TRANSPORT PRESSURE, mmHg: NDA

STORAGE AND HANDLING: DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently.

CAUTION! DO NOT use pressure to empty drum or drum may rupture with explosive force.

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. However, if operating conditions create high airborne concentrations, the use of an approved respirator is recommended.

ENGINEERING CONTROLS: Use adequate ventilation to keep airborne concentrations of this material below the recommended exposure standard.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:	Smooth, light blue grease with mineral oil odor
pH	NDA
VAPOR PRESSURE:	< 0.01
VAPOR DENSITY (AIR = 1)	> 5
BOILING POINT:	NA
FREEZING POINT:	NDA
MELTING POINT:	Semi-solid
SOLUBILITY:	Negligible
SPECIFIC GRAVITY:	0.94-0.95
EVAPORATION RATE:	< 0.01

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: May form SO₂. If incomplete combustion, Carbon Monoxide.

CHEMICAL STABILITY: Stable

CONDITION TO AVOID: N/A

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with strong oxidants like liquid chlorine, concentrated oxygen.

HAZARDOUS POLYMERIZATION: Will not occur.

11. DISPOSAL CONSIDERATIONS

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste disposal site or facility.

12. 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.

SARA/TITLE III, Section 313 Status: Zinc Compounds <8%

13. 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.

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.