

## 1. COMPANY IDENTIFICATION

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

### 100% MICROLON MIL

OSHA HAZARD	COMPONENT
Combustible	Petroleum Hydrocarbons
ACGIH TLV; OSHA PEL	Trimethyl Benzene
ACGIH TLV; OSHA PEL	Stoddard Solvent

The base component may be a mixture of any of the following: CAS 64742-88-7, CAS 1330-20-7, CAS 95-63-6.

### 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 a mineral 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:** Slightly irritating but does not injure eye tissue.

**SKIN:** Low order of toxicity. Frequent or prolonged contact may irritate and cause dermatitis.

**INGESTION:** Minimal toxicity. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

**INHALATION:** High vapor/aerosol concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract. May cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death.

## 4. FIRST AID MEASURES

**EYE:** Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

**SKIN:** Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.

**INGESTION:** If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

**INHALATION:** Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

## **5. FIRE FIGHTING MEASURES**

### **FLAMMABLE PROPERTIES**

**FLASH POINT (PMCC):** 160° F

**AUTOIGNITION:** 229° C approx.

**FLAMMABILITY LIMITS:** (% by volume in air): Lower: 0.8 Upper: 5.0

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

**NFPA RATINGS:** Health 1; Flammability 2; 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:**

Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Use foam, dry chemical, CO<sub>2</sub> or water spray to extinguish fire. Respiratory and eye protection required for fire fighting personnel. Avoid spraying water directly into storage containers due to danger of boilover. This liquid is volatile and gives off invisible vapors, either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

### **COMBUSTION PROPERTIES:**

Fume, smoke and carbon dioxide. Incomplete combustion can produce carbon monoxide.

## **6. ACCIDENTAL RELEASE MEASURES**

**LAND SPILL:** Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills, implement cleanup procedures; for large spills implement cleanup procedures and, if in a public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 7), notify the National Response Center. Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

**WATER SPILL:** Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear. Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

## **7. HANDLING AND STORAGE**

**ELECTROSTATIC ACCUMULATION HAZARD:** Yes, use proper grounding procedure.

**STORAGE TEMPERATURE, DEG. C:** Ambient

**LOADING/UNLOADING TEMPERATURE, DEG. C:** Ambient

**STORAGE/TRANSPORT PRESSURE, mmHg:** Atmospheric

**STORAGE AND HANDLING:** Keep container closed. Handle and open containers with care. Store in a cool, well-ventilated place away from incompatible materials. **DO NOT** handle or store near an open flame, heat or other source of ignition. Protect material from direct sunlight. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. **DO NOT** pressurize, cut, heat or weld containers. Empty product containers may contain product residue. **DO NOT** reuse empty containers without commercial cleaning or reconditioning.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

**EYE/FACE PROTECTION:** Chemical safety goggles and/or full face shield to protect eyes and face, if product is handled such that it could be splashed into the eyes.

**SKIN PROTECTION:** Impervious gloves (Viton, Nitrile, PVC) should be worn at all times when handling this material. In confined spaces where the risk of skin exposure is much higher, impervious clothing should be worn.

**RESPIRATORY PROTECTION:** If exposure exceeds occupational exposure limits, wear a NIOSH approved respirator. Proper equipment includes an approved combination organic vapor/particulate filter chemical cartridge respirator for low concentrations, or an atmosphere-supplied, positive pressure demand, self-contained or airline breathing apparatus for high concentrations.

**ENGINEERING CONTROLS:** Mechanical ventilation is recommended for all indoor situations to control fugitive emissions. Electrical and mechanical equipment should be explosion proof. Concentrations in air should be maintained below the recommended threshold limit if unprotected personnel are involved. For personnel entry into confined spaces (i.e., bulk storage tanks), a proper confined space entry procedure must be followed including ventilation and testing of tank atmosphere. Local ventilation recommended where mechanical ventilation is ineffective in controlling airborne concentrations below the recommended occupational exposure limit. Make up air should always be supplied to balance air exhausted (either generally or locally).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL DESCRIPTION:</b>	Colorless, slightly cloudy liquid
<b>pH</b>	NDA
<b>VAPOR PRESSURE:</b>	>7.0 mm Hg @ 38° C
<b>VAPOR DENSITY (AIR=1)</b>	4.8
<b>BOILING POINT:</b>	150° C to 205° C
<b>FREEZING POINT:</b>	-58° C
<b>MELTING POINT:</b>	NDA
<b>SOLUBILITY:</b>	Insoluble in water
<b>SPECIFIC GRAVITY:</b>	0.79 at 16° C
<b>DENSITY:</b>	NDA
<b>EVAPORATION RATE:</b>	(n-butyl acetate = 1) 0.1 approx.
<b>VISCOSITY:</b>	1.1 cSt @ 25° C (Min.)
<b>PERCENT VOLATILE (VOL):</b>	98% approx.

## 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

**SKIN EFFECTS:** The dermal LD50 is greater than 4.0 ml/kg.

**ACUTE ORAL EFFECTS:** The oral LD50 is greater than 8.0 ml/kg.

**ACUTE INHALATION EFFECTS:** The inhalation LC50 is greater than 1400.0 ppm, 4 hours.

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY: NDA

ENVIRONMENTAL FATE: No food chain concentraion potential. Biodegradable.

## 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 requirments.

DOT SHIPPING NAME:	NA Unregulated
DOT HAZARD CLASS:	NA Unregulated
DOT IDENTIFICATION NUMBER:	NA Unregulated
DOT PACKING GROUP:	NA Unregulated

## 15. REGULATORY INFORMATION

SARA 311 CATEGORIES	1. Immediate (Acute) Health Effects:	NO
	2. Delayed (Chronic) Health Effects:	YES
	3. Fire Hazard:	YES
	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.

TRIMETHYL BENZENE can be found on lists 16, 17.

STODDARD SOLVENT can be found on lists 16, 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.**