

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 AEROSOL METAL TREATMENT

2a. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS		Occupation Exposure Limits		
CAS Number	Description	WT %	OSHA PEL	ACGIH TLV
0074-98-6	Propane	7.29	Simple Asphyx.	1000 ppm
0075-28-5	Isobutane	2.54	Not Est	800 ppm
0095-63-6	1,2,4-Trimethylbenzene	3.29	Not Est	25 ppm
0106-97-8	N-Butane	4.98	Not Est	800 ppm
4742-88-7	Mineral Spirits	78.04	100 ppm	100 ppm

COMPOSITION COMMENT:

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: Contact with liquid or vapors causes irritation (redness, watering, itching, stinging, blurred vision).

SKIN: Contact causes irritation (dryness, itching, cracking, rash and swelling).

SKIN ABSORPTION: May be absorbed through the skin in harmful amounts. Symptoms may include headache, dizziness, nausea, weakness, loss of coordination.

INGESTION: Causes nausea, vomiting and diarrhea.

INHALATION: Vapors and mist irritate nose, throat and lungs (burning, stinging, coughing). May cause headache, dizziness, nausea, weakness, shortness of breath and loss of coordination. Exposure to extremely high vapor concentrations may cause unconsciousness and asphyxiation. Intentional abuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

4. FIRST AID MEASURES

EYE: Immediately flush with plenty of water for 15 minutes, while lifting upper and lower eyelids. Get medical attention.

SKIN: Immediately wash with soap and water. Remove contaminated clothing and shoes. Wash or clean thoroughly before reuse, get medical attention if irritation persists.

INGESTION: In case of accidental ingestion call Poison Center, Emergency Room or Physician immediately.

INHALATION: Remove from exposure to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet. Get medical attention immediately.

OTHER: Have MSDS (Material Safety Data Sheet) available if possible when calling Poison Center, Emergency Room or Physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

OSHA Flammability Class: Class II-A Combustible

BULK PRODUCT FLASH POINT (PMCC): 160° F

BULK PROPELLANT FLASH POINT: -156° F

AUTOIGNITION:

FLAMMABILITY LIMITS: (% by volume in air):

EXTINGUISHING MEDIA: Foam, CO₂, Dry Chemical, Water Fog

FIRE FIGHTING INSTRUCTIONS: Evacuate all unnecessary personnel. Use full protective equipment, including self-contained breathing apparatus. Use water spray, preferably fog, to cool closed containers to prevent pressure build-up and possible explosion. Direct water stream is not recommended for oil base fires. Product may float and reignite on surface of water. Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or waterways.

COMBUSTION PROPERTIES: Dangerous air-vapor mixtures may form and ignite when exposed to sparks or flame from pilot lights, stoves, heaters, electric motors, static discharge or other sources of ignition. Vapors are heavier than air and may travel along the ground to distant locations. Contents under pressure. Exposure to heat or prolonged exposure to the sun may cause bursting.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: Eliminate ignition sources and ventilate area. Evacuate all unnecessary personnel. Wear full protective equipment. Dike drains to prevent entering storm or sanitary sewers, rivers, streams or waterways. Contain spill and cover with inert absorbant material. Take up using non-sparking tools (aluminum, brass or copper) and place mixture into containers for disposal. Note: Some spills or releases may require special reporting to local, state or federal agencies.

WATER SPILL: Eliminate ignition sources and ventilate area. Evacuate all unnecessary personnel. Wear full protective equipment. Dike drains to prevent entering storm or sanitary sewers, rivers, streams or waterways. Contain spill and cover with inert absorbant material. Take up using non-sparking tools (aluminum, brass or copper) and place mixture into containers for disposal. Note: Some spills or releases may require special reporting to local, state or federal agencies.

WASTE/DISPOSAL: Waste material and empty containers must be disposed of in accordance with all local, state and federal environmental control regulations. Use only approved waste management facilities.

DOT/CERCLA: Reportable quantity (RQ) for this product is 999,999 gallons based on RQ 0 pounds.

7. HANDLING AND STORAGE

ELECTROSTATIC ACCUMULATION HAZARD:

STORAGE TEMPERATURE, DEG. C: < 35° C

LOADING/UNLOADING TEMPERATURE, DEG. C: < 35° C

STORAGE/TRANSPORT PRESSURE, mmHg:

STORAGE AND HANDLING: Contents under pressure. Do not store above 120° For permit prolonged exposure to sunlight. Protect containers from damage. Store in buildings or areas designed and protected for storage of aerosols. Keep out of reach of children. Do not store where contact with incompatible material could occur, even during an accidental spill or release.

HANDLING PRECAUTIONS: Keep liquid spray and vapors away from heat, sparks and flame. Turn off or remove all sources of ignition. Use proper methods of ventilation to prevent vapor build-up. Avoid spraying hot surfaces. Avoid breathing vapors and spray mists. Avoid contact with eyes and skin. Do not take internally. Use adequate methods of ventilation, respiratory and personal protective equipment. Do not heat, puncture or incinerate containers. Contents are under pressure and may contain explosive vapors, even when empty. Do not remove or deface label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT OUTDOOR OR OPEN AREAS: If necessary because of wind, etc., use mechanical filter respirator or particle mask to avoid breathing spray mists.

PERSONAL PROTECTIVE EQUIPMENT ENCLOSED OR RESTRICTED VENTILATION AREAS: Use NIOSH approved cartridge respirator to keep vapor/mist levels of hazardous ingredients (listed in section 2) below the occupational exposure limits (PEL and TLV). If exposure levels are unknown, or limits exceeded, a full face piece air-purifying cartridge respirator is recommended. Use filter to avoid breathing spray particles and sanding dusts. Follow respirator's manufacturer's instructions for use.

VENTILATION INDOOR OR ENCLOSED AREAS: Provide general mechanical ventilation or local exhaust to keep vapor concentrations below PELs and TLVs in section 2 and lower flammable limits in section 4.

EYE/FACE PROTECTION: Wear safety glasses, with side shields, designed to protect eyes against liquid splash and mists. **Note:** Contact lenses may contribute to the severity of an eye injury and should not be worn when working with chemicals.

SKIN PROTECTION: When necessary, wear impermeable gloves to prevent skin contact. Consult safety equipment supplier for specific recommendation of construction material.

OTHER PROTECTIVE EQUIPMENT: Wear protective clothing to avoid skin contact with liquid or mists.

ENGINEERING CONTROLS: Eye washes and safety showers are recommended in the workplace. Wash hands after using, and before eating, drinking, or using tobacco products. Thoroughly clean contaminated clothing and shoes before reuse.

Periodically monitor exposure levels to hazardous ingredients listed in section 2 and review permissible limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:	Colorless translucent liquid, slight mineral odor.
pH	N/A
WT/gal	6.55 (w/prop: 6.14)
VAPOR DENSITY (AIR= 1)	Heavier than air.
BOILING POINT:	302° F
FREEZING POINT:	N/A
MELTING POINT:	N/A
SOLUBILITY:	Non-soluble
SOLIDS by % WEIGHT	3.43
HAPS By % WEIGHT	0.97
EVAPORATION RATE:	Slow compared with n-butyl acetate
CALCULATED V.O.C.	6.33 lb/gal (760 gm/lc)
Packaged Product Flame Extension	18 inches

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITION TO AVOID: High temperature and humidity, ignition source, vapor build-up.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

SKIN EFFECTS: Irritation and skin disorders, dermatitis.

ACUTE ORAL EFFECTS: Eye disorders.

ACUTE INHALATION EFFECTS: Respiratory tract irritation.

CHRONIC EFFECTS FROM LONG-TERM/REPEATED EXPOSURE: Long term or repeated overexposure, without proper ventilation or personal protection, may cause damage to brain and nervous system, dermatitis or other skin disorders.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory tract irritation, nausea, eye disorders, skin disorders, sensitization to chemical substances.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: NDA
ENVIRONMENTAL FATE: No food chain concentration potential. Biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste material and empty containers must be disposed of in accordance with all local, state and federal environmental control regulations.
Use only approved waste management facilities.

14. 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.