
Material Safety Data Sheets

Alumilite Corporation
315 E. North St.
Kalamazoo, MI 49007
269 488-4000

Emergency Telephone: Chemtrec 1-800-424-9300

Product Name: UMR
Form: Aerosol cans, 12 oz.

Hazardous Ingredient/Identity Information

<u>INGREDIENT</u>	<u>PERCENT</u>	<u>OSHA PEL (8 hr TWA)</u>
Dimethyl Ether	40% – 60%	1000 ppm
1, 1, 1, 2 Tetrafluoroethane	60% – 40%	1000 ppm
Aliphatic Hydrocarbon	4% -- 10%	(TWA: 400 ppm, STEL: 500 ppm)

Physical/Chemical Characteristics

Appearance:	Clear, colorless liquid – under pressure in cans
Boiling Point:	N/A
Vapor Pressure (mm Hg.)	69 psig @70°F
Vapor Density (AIR = 1)	2.6
Specific Gravity (H ₂ O = 1)	.989
Solubility in Water @70F	Partially soluble

Health Hazard Data

Routes of Entry: Skin: Yes Inhalation: Yes Ingestion: Not likely

Potential acute health effects of overexposure:

Eye:	Eye contact with liquid or vapor may cause severe irritation, redness, tearing, blurred vision and possible freeze burns.
Skin:	Skin contact with the liquid may cause freezing of the skin (frostbite) or irritation.
Ingestion:	Ingestion not a likely route of entry
Inhalation:	Overexposure by inhalation of concentrated vapors may cause respiratory irritation, nausea, headache and dizziness. Inhalation may produce anesthetic effects and feeling of euphoria. Prolonged overexposure can cause rapid breathing, headache, dizziness, narcosis, unconsciousness and death from asphyxiation, depending on concentration and time of exposure.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

May increase susceptibility to toxicity of excessive exposures in persons with pre-existing diseases of the central nervous or cardiovascular systems.

EMERGENCY AND FIRST AID PROCEDURES

- EYES:** Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention. Consult physician immediately if frostbite occurs.
- SKIN:** Wash affected area with soap and water. Remove and launder contaminated clothing before reuse. Treat as frostbite. If irritation develop or if there is evidence of tissue damage, get medical attention.
- INHALATION:** Remove to fresh air. If breathing has stopped, restore breathing at once. Administer oxygen and get immediate medical help.
- INGESTION:** Ingestion is an unlikely route of exposure. Do not induce vomiting unless instructed to do so by a physician. Seek immediate medical attention.

Fire & Explosion Hazard Data

- Flash Point: N/A – Flash point not determined for mixture. Product is non-flammable per ASTM D3065-01.
- Extinguishing Media: Dry chemical extinguisher (B-C), Water
- Unusual Fire and Explosion Hazards: Container may rupture or explode under fire conditions. Hazardous decomposition products may be formed (see reactivity data section.) Under fire conditions, empty containers retain product residue and can be dangerous.
- Fire Fighting Procedures: Use dry chemical, foam, or CO₂; water may be ineffective but should be used to keep exposed containers cool. Stop the release of materials if possible. Avoid accumulation of unburned materials. Remove personnel in general area.

Reactivity Data

- Stable: Yes
- Conditions to Avoid: Ignition sources such as open flames, sparks, static discharges or glowing metal surfaces.
- Incompatibility (Materials to Avoid): Powdered or alkaline earth metals
- Hazardous Combustion By-products: Fluorine compounds and HF
- Hazardous Polymerization: Will not occur

Precautions for Safe Handling and Use

Steps to be taken in case material is spilled or released: Avoid breathing vapors. Evacuate area until vapor has dispersed. Remove all sources of ignition. Stop or reduce discharge if it can be done safely.

Handling: Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Do not use near ignition sources. Contents are under pressure. Do not puncture, incinerate, expose to

open flame or temperature above 120°F. Keep out of direct sunlight. For industrial use only. Keep out of reach of children. Store in a well-ventilated place, Keep container tightly closed. Read label precautions. Do not remove or deface label.

Storage: Store in a cool, dry, well ventilated area away from all sources of ignition. Do not store at temperature above 120°F.

Disposal: Empty fully and relieve pressure. Empty containers can be recycled. Dispose according to Local, State and Federal regulations.

Ventilation: Maintain adequate mechanical ventilation to keep employee exposure below manufacturer's recommended limits.

Skin protection: The use of chemically resistant gloves is recommended if there is any possibility of prolonged or repeated liquid contact with the skin.

Eye protection: Proper eye protection should be worn in any type of industrial operation, such as splashproof faceshield or goggles.

HMIS Information: Health: 1 Flammability: 2 Reactivity: 1

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