

Ethymethylsilioxane

68037-77-4

.5-10

4. First Aid Measures

Eye Contact:

Flush with warm water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Skin Contact:

Wash with soap and water. Remove any contaminated clothing and launder before reusing. If irritation persists, seek medical attention.

Inhalation:

Remove exposed individual to fresh air, protecting yourself. Restore breathing if necessary. Contact a physician.

Ingestion:

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

5. Fire Fighting Measures

Flash Point: None

Flammable limits in air, % by volume:

Upper: No Information

Lower: No Information

Extinguishing Media:

Dry chemical, carbon dioxide, halon, or foam is recommended. Water spray may be used to cool containers or structures. Halon may decompose into toxic materials and carbon dioxide will displace oxygen, take proper precautions when using these materials.

Unusual Fire & Explosion Hazards:

This material may be ignited by extreme heat, sparks, flames or other ignition sources (static electricity). Vapors are heavier than air and will collect in low areas (sewers) or travel considerable distances. If containers are not cooled in a fire, they may rupture and ignite.

Special Fire Fighting Procedures:

At elevated temperatures (over 130F) aerosol container may burst, vent or rupture; use equipment or shielding to protect personnel. Cooling exposed containers with streams of water may be helpful. Emergency responders should wear self-contained breathing apparatus. Wear other protective gear as conditions warrant. Keep unauthorized people out and try to contain spills or leaks if it can be done safely. Material will float on water, avoid spreading the fire.

6. Accidental Release Measures

Spill or Leak Instructions

Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

7. Handling and Storage

Handling:

Store below 120°F in cool, dry area, out of direct sunlight and away from strong oxidizers. Do not puncture or burst. Use in accordance with good work place practices. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld or apply heat to empty containers Do not incinerate

Storage:

Store in a cool, dry area, away form heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials

8. Exposure Controls / Personal Protection

Protective Equipment:

Use synthetic gloves if necessary to prevent excessive skin contact. Do not wear contacts and always use ANSI approved safety glasses or splash shield.

Engineering Controls:

General or dilution ventilation is frequently sufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Use a NIOSH approved respirator if ventilation is not adequate to maintain exposures below TLV levels.

Respiratory Protection:

Use adequate ventilation to maintain exposure limits. If the exposure limits of the products or any of its components is exceeded, an approved organic vapor mask should be used (consult your safety equipment supplier). Above Exposure limits, an approved self-contained breathing apparatus or airline respirator with full face-piece is required

Other Suggested Equipment:

Eye wash station and emergency showers should be available. Spill containment equipment should be available.

Discretion Advised:

We. take no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

Exposure guidelines:

Ingredients	CAS #	Exposure Limits
Trans-1,3,3,3-Tetrafluoroprop-1-ene	29118-24-9	1000 ppm TWA (supplier)
Trans-1-Chloro-3,3,3-trifluoropropene	102687-65-0	NE
EthylMethylsilioxane	68037-77-4	NE

9. Physical and Chemical Properties

Appearance: Clear mist as dispensed from aerosol tank

Evaporation Rate: Ether = 1 Slower

PH: NA

Initial Boiling point and boiling range: NE

Flammability: Flammable

Vapor density >1 (Air=1)

Relative density NE

Partition coefficient: NE

Decomposition temperature: NE

Flammable limits in air, % by volume:

Upper: NA

Lower: NA

Odor: Negligible

Melting/Freezing point: NE

Flash Point: Flash point of propellant <0°F

Vapor pressure: >30 psi

Solubility: negligible

Auto-ignition temperature: NE

Viscosity: NA

10. Stability and Reactivity

Stability: Stable

Conditions to Avoid: Heat, spark, and open flame

Incompatibility: Strong-Oxidizing Agents

Hazardous Decomposition: May form carbon dioxide and carbon monoxide, Chlorine, hydrogen chloride, Phosgene, hydrocarbons.

Hazardous Polymerization: Will not occur

11. Toxicological Information

Component Toxicological Information:

Acute Oral

No data

Acute inhalation toxicity

Trans-1,3,3,3-Tetrafluoroprop-1-ene
Trans-1-Chloro-3,3,3-trifluoropropene

LC50 Rat Dose > 965 mg/l > 207000 ppm 4 h
LC50 Rat Dose 120000 ppm 4 h

Acute Dermal

Trans-1,3,3,3-Tetrafluoroprop-1-ene Rabbit no irritation OECD test Guidline 404
Trans-1-Chloro-3,3,3-trifluoropropene Rabbit no irritation OECD guideline 404 4 h

Ethylmethy siloxane

Oral

68037-77-4

LD50 Rat >15,000 mg/l

12. Ecological Information

ECOTOXICOLOGICAL INFORMATION:

Toxicity to fish

Trans-1,3,3,3-Tetrafluoroprop-1-ene NOEC >117 mg/l 96 h cypinus carpio (Carp)
Trans-1-Chloro-3,3,3-trifluoropropene LC50 38 mg/l 96h Oncorhynchus mykiss(rainbow trout)

Toxicity to daphnia and other aquatic invertebrates

Trans-1,3,3,3-Tetrafluoroprop-1-ene EC50: > 160 mg/L 48h Daphnia magna (water flea)
Trans-1-Chloro-3,3,3-trifluoropropene EC50: 82 mg/L 48h Daphnia magna (water flea)

Toxicity to algae

Trans-1,3,3,3-Tetrafluoroprop-1-ene NOEC > 170 72h Algae
Trans-1-Chloro-3,3,3-trifluoropropene EC50 106.7 mg/L 72h Pseudokirchneriella subcapitata (green algae)

Not readily biodegradable

13. Disposal Considerations

Do not puncture or burn containers. Give empty, leaking, or full containers to disposal service equipped to handle and dispose of aerosol (pressurized) containers. Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

14. Transport Information

Ground

Aerosols (limited quantity),
Class 2.1, ERG 126

Air (IATA)

Aerosols (limited quantity)
Class 2.1, ERG 126, UN 1950

Vessel

Aerosol (Limited Quantity)
Class 2.1, UN 1950

15. Regulatory Information

Environmental Regulations

SARA 302/304:

None

SARA 311/312:

Acute health hazard
Sudden Release of Pressure

Section 313

This product contains: None reportable

CELCRA None

California Prop. 65 none

All the chemicals used in this product are TSCA listed.
Check with your local regulators to be sure all local regulations are met.

16. Other Information

Hazard ratings This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

NFPA: Level 1 Aerosol

HMIS: Health: 2 Flammability: 1 Reactivity: 0

RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

Note:

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. We make no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an SDS does not indicate that the possessor of the SDS was a purchaser or user of the subject product.