

MATERIAL SAFETY DATA SHEET

Product Name:	General Purpose GF Mold Release	Revision Date: July 2005
Series:	GF (Gentle Formula)	
Form:	Aerosol cans, 12 oz.	
Emergency Contact:	INFOTRAC 1(800)535-5053	

Hazardous Ingredient/Identity Information

<u>INGREDIENT</u>	<u>PERCENT</u>	<u>CAS#</u>	<u>OSHA PEL (8 hr TWA)</u>
1,1,1,2-Tetrafluoroethane	<10%	811-97-2	1000 ppm
Dimethyl Ether	20% – 30%	115-10-6	1000 ppm
1,1-Difluoroethane	60% – 80%	75-37-6	1000 ppm

Physical/Chemical Characteristics

Appearance + Odor:	Clear, colorless liquid – under pressure in cans, with slight ethereal odor		
Boiling Range:	-13F	Percent volatile by volume:	100%
Vapor Pressure (mm Hg.)	64 psig @70°F	Vapor Density (AIR = 1)	2.0
Specific Gravity (H ₂ O = 1)	.83	Solubility in Water @70F	2.1%

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:	-58 F (estimated) *Note: This product is non-flammable by aerosol standard definition, per ASTM D3065-01.
	LEL: 3.4% (Vol.) gas in air UEL: 18% (Vol.) gas in air
Extinguishing Media:	Dry chemical extinguisher (B-C), Water
Unusual Fire and	Container may rupture or explode under fire conditions.
Explosion Hazards:	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 CO ₂ ; 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	Hazardous Polymerization: Will not occur
Conditions to Avoid:	High heat, sparks and open flames
Incompatibility (Materials to Avoid):	Oxygen, oxidizers, CO, acetic acid, powdered Al, Zn, Be, finely divided metals, magnesium and alloys containing more than 2% magnesium.
Can sodium,	react violently if in contact with alkali or alkali earth metals such as potassium or barium.
Hazardous Combustion By-products:	Violent decomposition can occur if heated in the presence of peroxides, hydrogen fluoride & possible carbonyl halides.

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.

Manufacturer's Statement: This information contained herein is believed to be correct as of issue date. Manufacturer shall not be liable for damages arising out of, or in connection with the information obtained herein. It is intended to assist in the normal, safe usage of product. No warranty of any kind is expressed or implied as to the accuracy, completeness or adequacy of the information obtained herein.