

MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Marykate® Tek Gel
Product Number (s): MK81005

Manufactured By: CRC Industries, Inc. (215) 674-4300
885 Louis Drive, Warminster, PA 18974
24-Hour Emergency Information: CHEMTREC (800) 424-9300

Section 2: Composition/Information on Ingredients

Component	CAS NUMBER	ACGIH TLV	OSHA PEL	OTHER LIMITS	%
Polytetrafluoroethylene (PTFE*)	9002-84-0	NE	NE	10 mg/m ³	70-95
Perfluoroalkyether	60164-51-4	NE	NE	NE	5-30
Perfluorocarboxylic Acid	51798-33-5	NE	NE	NE	2-5

*Not a hazardous material under normal usage, but PTFE can produce toxic fumes if pyrolyzed.

Section 3: Hazards Identification

Emergency Overview

Appearance & Odor: Smooth, white grease with no odor.

DANGER: May irritate eyes and skin. Thermal decomposition of PTFE releases hazardous fumes that may cause polymer fume fever.

Potential Health Effects:

Inhalation: Oil mist and vapors at high temperatures may irritate respiratory passages. Inhalation of decomposition products of PTFE (over 290°C) may cause polymer fume fever, a temporary flu-like illness accompanied by fever, chills, and sometimes cough, of approximately 24 hours duration. Inhalation of fluorine compounds as decomposition products of PTFE (over 290°C) may cause lung irritation and pulmonary edema.

Eyes: Irritation with discomfort, tearing or blurring of vision.

Skin: Repeated or prolonged skin contact may cause irritation or rash. Thermal decomposition of PTFE (over 290°C) will generate hydrogen fluoride, which is corrosive, causing burns on contact with skin and other tissue.

Ingestion: May cause gastrointestinal irritation.

Carcinogenicity: OSHA: No IARC: No NTP: No

Chronic Overexposure: Repeated episodes of polymer fume fever may cause lung damage.

Medical Conditions Aggravated by Exposure: Individuals with pre-existing diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures from thermal decomposition products.

Section 4: First Aid Measures

Inhalation: Remove to fresh air. Give artificial respiration if necessary. Get medical attention.

Eyes: Flush with large amounts of water for at least 15 minutes. Get immediate medical attention.

Skin: Remove contaminated clothing and wash area with soap and water.

Ingestion: Call a physician. Do not induce vomiting. If conscious, give 2 glasses of water.

Note to Physician: Activated charcoal mixture may be administered. Suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

Section 5: Fire-Fighting Measures

Flashpoint: None Method: PMCC LEL: ND UEL: ND

Extinguishing Media: As appropriate for combustibles in area.

Hazardous Combustion Products: Hydrogen fluoride, carbonyl fluoride, carbon monoxide and small amount of other toxic fumes.

Fire-fighting Instructions: Wear a NIOSH approved positive pressure self-contained breathing apparatus with full protective clothing. Do not release runoff from fire control methods to sewers or waterways.

NFPA: Health: 1 Flammability: 0 Reactivity: 0

HMIS: Health: 1 Flammability: 0 Reactivity: 0 PPE: B

Section 6: Accidental Release Measures

Spill/Leak Procedures: Area should be ventilated. Remove sources of heat and flame. Absorbent should be used to pick up any liquid material. Wipe or scrape up grease and place it in a proper container for disposal. All used and unused product should be disposed of in accordance with federal, state and local regulations.

Section 7: Handling and Storage

Handling Procedures: Wash hands after use. Avoid contact with eyes and skin. Do not use near heat or flames.

Storage Procedures: Store in a cool, dry area. Do not store in open or unlabeled containers. Store away from incompatibles. Keep out of reach of children!

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Provide ventilation adequate to prevent accumulation of vapors. Use mechanical means if necessary to maintain levels below the exposure limits. If working in a confined space, follow applicable OSHA regulations.

Respiratory: Use NIOSH/MSHA compliant respirators or self-contained breathing apparatus above exposure limits. Follow OSHA regulations 29 CFR 1910.134.

Protective Clothing/Equipment: Wear chemically protective gloves and safety glasses. Use a splash apron and boots if splashing occurs.

Section 9: Physical & Chemical Properties

Physical State:	Grease	Appearance & Odor:	Smooth white grease, no odor
Specific Gravity:	1.89-1.93 (@75F)	Boiling Point:	Not volatile
Freezing Point:	ND	Vapor Pressure:	Negligible
Evaporation Rate:	ND	Vapor Density (air = 1)	ND
pH:	Neutral	Solubility:	Negligible in water

Volatile Organic Compounds:%:	ND	g/L:	ND	lbs./gal:	ND
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Section 10: Stability and Reactivity

Stability:	Stable	Hazardous Polymerization:	No
Chemical Incompatibilities:	Strong oxidizers.		
Conditions to Avoid:	Pyrolysis		
Hazardous Decomposition Products:	Thermal oxidative decomposition can produce hydrogen fluoride, carbonyl fluoride, carbon monoxide as well as small amounts of other toxic fumes.		

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product.

The following data is available for product components:

Perfluoroalkylether:	Inhalation 4 hr ALC:	19.54 mg/L (rat)
	Skin absorption ALD:	>17,000 mg/kg (rabbit)
	Oral ALD:	>25,000 mg/kg (rat)
Perfluorocarboxylic Acid:	Oral ALD:	>25,000 mg/kg (rat)

Section 12: Ecological Information

Ecotoxicity:	No data available.
Environmental Fate:	No data available for biodegradation.

Section 13: Disposal Considerations

Disposal: This material if discarded may be hazardous waste under U.S. EPA RCRA regulations. All disposal activities must comply with federal, state and local regulations. Contact your local or state environmental agency for specific rules. Do not dump into sewers, on the ground or into any body of water.

Section 14: Transportation Information

Shipping Name:	Not Regulated		
Hazard Class:	NA	UN Number:	NA
Label:	NA	Placard:	NA
Special Provisions:	NA	Packing Group:	NA

Section 15: Regulatory Information

TSCA: All components are either listed under TSCA or are exempt.
SARA Title III: Section 311/312: Acute
Section 313*: NA
CERCLA/Superfund (RQ): NA
Extremely Hazardous Substances: No
California Prop 65: No
* See section 2 for percentage

Section 16: Additional Information

Prepared By: Michelle Milburn Date: July 9, 2003
Technical Information: (800) 521-3168 CRC #: MK81005

This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS:	Chemical Abstract Service	NA:	Not Applicable
ppm:	Parts per Million	ND:	Not Determined
TCC:	Tag Closed Cup	NE:	Not Established
LEL:	Lower Explosive Limit	g/L:	grams per Liter
UEL:	Upper Explosive Limit	lbs./gal:	pounds per gallon
PPE:	Personal Protection Equipment	RQ:	Reportable Quantity
COC:	Cleveland Closed Cup		