



MATERIAL SAFETY DATA SHEET

PTFE Free Sealant

October 2007

1. PRODUCT IDENTIFICATION

PTFE Free Sealant: Thread sealant

Manufactured by:
Swagelok Company
29495 F.A. Lennon Rd
Solon, Ohio USA 44139
Tel: (440) 349-5600

Emergency Contact:
Chemtrec (800) 424-9300

2. INGREDIENTS

Ingredients	CAS #	WT%	PEL
Poly (1, 2-propylene glycol azelate)	29408-67-1	60-70	Not Available
Polypropylene homopolymer	9003-07-0	15-25	Not Available
Magnesium Oxide	1309-48-4	10-20	15 mg/m ³
Magnesium Stearate	557-04-0	1-5	Not Available

3. HEALTH HAZARD INFORMATION

- European Community Danger Group:..... Xi - Irritant
- Special Hazards for man or environment: R 36/37/38 - Irritating to eyes, respiratory system and skin
- LD₅₀..... Poly (1, 2 - propylene glycol azelate) - 5g/kg oral, rat
- LC₅₀..... Not Available

Routes of Entry

Skin Contact	Skin Absorption	Eye Contact	Inhalation	Ingestion
Yes	No	Yes	Yes	Yes

4. FIRST AID MEASURES

- If inhaled (Overexposure): If person is affected by fumes, remove person to fresh air. Seek medical attention.
- After contact with skin (Overexposure): Wash thoroughly with soap and water. If severe irritation develops, seek medical attention.
- After contact with eyes: Rinse thoroughly with water for 15 minutes, seek medical attention. Do not rub eyes.
- If swallowed: Seek medical attention.
- Medical information: Inhaling fumes of decomposition products can cause temporary influenza-like symptoms which are described as "polymer fume fever". Symptoms include fever, cough, and malaise.



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5. FIRE FIGHTING MEASURES

- Suitable extinguishing agents: Carbon dioxide, foam, water, agent suitable for environment.
- Not suitable for safety reasons: None known.
- Special dangers caused by substance preparation itself, by combustion products or gases formed: May give off carbon monoxide, carbon dioxide, magnesium, ketones, acrolein, and aldehydes above 392°F/200°C.
- Additional information: None.

Autoignition	UEL	LEL	Sensitivities
Not Applicable	Not Available	Not Available	Not Available

6. ACCIDENTAL RELEASE MEASURES

- Measures for protection of people: Eye and hand protection as needed to minimize excessive exposure.
- Measures for protection of the environment: None required.
- Cleaning measures: Use absorbent material and suitable cleaner.
- Additional information: None.

7. HANDLING AND STORAGE

- Safety information: None.
- Information on protection from fire or explosion: May decompose when heated above 392°F/200°C.
- Additional information: Store in a cool, dry place for optimal product performance.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Precautionary measures to protect employees: None required.
- Respiratory protection: None required.
- Hand protection: Rubber gloves are recommended to minimize exposure.
- Eye protection: Safety glasses or goggles are recommended to minimize exposure.
- Skin protection: Wash hands after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Odor	pH	Density	Vapor Pressure
Grainy White Paste	Faint	Not Applicable	1.2 gm/cm ³	<1 mm Hg
Boiling Point	Melting Point	Flash Point	Flammability	Explosive
Not Available	Not Available	Not Available	Not Applicable	Not Applicable



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10. STABILITY AND REACTIVITY

- Conditions to avoid: May give off hazardous fumes at temperatures above 392°F/200°C
- Materials to avoid: Pure oxygen, chlorine, fluorine, oxidizers, phosphorus pentachloride, chlorine trifluoride, and bromine pentafluoride.
- Hazardous decomposition products: See Sections 4 and 5.

11. TOXICOLOGICAL INFORMATION

- Acute toxic properties: None known.
- Health effects: See Sections 4 and 5.
- Additional health effects: None known.

Sensitization	Teratogenicity	Reproductive Toxicity	Mutagenicity	Synergistic Products	Carcinogenicity
Not Available	Not Available	Not Available	Not Available	Not Available	Listed ingredients are not suspected carcinogens according to NTP, IARC, and OSHA

12. ECOLOGICAL INFORMATION

- Mobility: Paste-like viscosity.
- Degradability: Not established.
- Accumulation: No known adverse bioaccumulation or biomagnification effects.
- Short/Long term effects on ecotoxicity: No known ecological effects.

13. DISPOSAL CONSIDERATIONS

- Appropriate methods of disposal: Unused product not considered a hazardous waste in the United States. Dispose of in a responsible manner.
- European Community (EC) considerations: Use appropriate waste codes based on ingredients.

14. TRANSPORT INFORMATION

- Transport precautions: Consult applicable regulations when transporting this product.
- Additional information: None.



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15. REGULATORY INFORMATION

- EC regulations: This product has been classified under CHIP-96 guidelines based on chemical content.
- US/Canadian regulation listings: SARA 313 - NO, TSCA - YES, Canada's Controlled Products – Magnesium Oxide.
- EC Relevant risk: Xi - irritant danger group, R: 36/37/38
- EC Relevant safety: S: 37/39 - Wear suitable gloves and eye/face protection.
S:20 - When using do not eat or drink.
- Additional information: Consult country codes for specific requirements.

16. OTHER INFORMATION

- Further information contact: Your Swagelok Distributor or the contacts listed in Section 1 of this sheet.
- Sources of information used to compile document: Properties of individual ingredients were used to compile this document. This Material Safety Data Sheet was designed to give the distributors and users of TFE Free Sealant information to handle and use the product in a responsible manner.

Preparation Data		
Environmental and Safety Department	(440) 248-4600	October 2007