



MATERIAL SAFETY DATA SHEET

SWAK® and Classic SWAK®

February 2010

1. PRODUCT IDENTIFICATION

SWAK®: Anaerobic thread sealant

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

Emergency Contact:
Chemtrec (800) 424-9300

2. INGREDIENTS

| Ingredients | CAS # | WT% | PEL |
|--|------------|-------|---------------|
| Polytetrafluoroethylene | 9002-84-0 | 30-40 | Not Available |
| Ethoxylated bisphenol A dimethacrylate | 41637-38-1 | 30-40 | Not Available |
| Poly (1, 2 Propylene Glycol Azelate) Ester | 29408-67-1 | 20-30 | Not Available |
| Titanium Dioxide | 13463-67-7 | 1-5 | 15 mg/m3 |
| Polyethylene Glycol | 25322-68-3 | 1-5 | Not Available |

3. HEALTH HAZARD INFORMATION

- LD₅₀..... Poly (1, 2 Propylene Glycol Azelate) Ester - 5g/kg oral, rat.
- LD₅₀..... Polyethylene Glycol - 30g/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 decomposition products can cause temporary influenza-like symptoms which are described as “polymer fume fever”. Symptoms include fever, cough and malaise. Contaminated smoking material may produce fluorinated compounds.



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5. FIRE FIGHTING MEASURES

- Suitable extinguishing agents: Carbon dioxide, foam, agent suitable for environment.
- Unsuitable extinguishing agents: None known.
- Special dangers caused by substance preparation itself, by combustion products or gases formed: At temperatures above 482°F/250°C, may produce decomposition products containing carbon monoxide, carbon dioxide, hydrogen fluoride, and perfluoro hydrocarbons.
- 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: Product may burn at high temperatures.
- 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 Grainy Off-White | Odor Slight Odor | pH Not Applicable | Density 1.3 gm/cm ³ | Vapor Pressure Not Available |
| Boiling Point Not Available | Melting Point Not Available | Flash Point >230°F/110°C | Flammability Not Available | Explosive Not Applicable |



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10. STABILITY AND REACTIVITY

- Conditions to avoid: At temperatures above 482°F/250°C, hazardous fumes may be generated.
- Materials to avoid: Pure oxygen, fluorine, chlorine. Oxidizers, strong reducers, free radical initiators, oxygen scavengers, peroxides, persulfates, accelerators, strong bases, and strong acids.
- 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 |
|---------------|----------------|-----------------------|---------------|----------------------|
| Not Available | Not Available | Not Available | Not Available | Not Available |

Carcinogenicity

Titanium dioxide has been listed as a possible human carcinogen by IARC (Group 2B). According to IARC, some inhalation studies on experimental animals have suggested the carcinogenicity of high concentrations of titanium dioxide. However, studies do not suggest an increased risk of cancer in humans from exposure to titanium dioxide pigment.

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

- US/Canadian regulation listings: SARA 313 - NO, TSCA - YES, Canada's Controlled Products - Yes
- Additional information: Consult country codes for specific requirements.

16. OTHER INFORMATION

- For 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 SWAK[®] information to handle and use the product in a responsible manner.

| Preparation Data | | |
|-------------------------------------|----------------|---------------|
| Environmental and Safety Department | (440) 349-5962 | February 2010 |