

## MATERIAL SAFETY DATA SHEET

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Trade Name: **TFE Paste**

Part Numbers Covered: See Section 16.

Product Use: Pure white thread lubricant and sealant for plastic or metal threads in heavy duty applications.

Formula: See Section 3.

Synonyms: Pipe thread compound.

Firm Name & Mailing Address: William H. Harvey Company  
4334 South 67<sup>th</sup> Street  
Omaha, NE 68117-1019 <http://www.wmharvey.com>

Emergency Phone Numbers: For chemical transportation emergencies ONLY, call CHEMTREC at (800)424-9300. Outside the U.S. (703)527-3887.

Information  
Telephone Number: (800)228-9681

Prepared By: Corporate Director – Safety and Environmental Compliance

Contact: Information telephone number – (800) 228-9681

Preparation Date: December 11, 2008

### SECTION 2 HAZARDS IDENTIFICATION

#### Emergency Overview:

Thick, white paste with a petroleum odor. May cause mild irritation to the eye and skin. Inhalation of vapors may cause respiratory tract irritation, and possible dizziness. Long term inhalation of dust may cause silicosis or cancer.

#### Potential Health Effects:

Skin: Irritation, including redness and dryness.

Eyes: May cause mechanical irritation, redness, tearing, and blurred vision.

Inhalation: Vapors may cause irritation to mucous membranes and the respiratory system. Headache, dizziness. Long term inhalation of dust may cause silicosis or cancer.

Ingestion: May cause irritation to the mouth and throat.

OSHA Hazard Classification: Irritant, target organ effects

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS:</u>	<u>% wt/wt:</u>	<u>CAS NUMBER:</u>
Calcium Carbonate	50 – 70%	1317-65-3
Oxidized Soy Bean Oil	10 – 30%	68152-81-8
Polytetrafluoroethylene	3 – 7%	9002-84-0
2-Butoxyethanol	3 – 7%	111-76-2
Titanium Dioxide	1 – 5%	13463-67-7
Ethoxylated Nonylphenol	1 – 5%	9016-45-9
Alkyl Quaternary Ammonium Bentonite	1 – 5%	68953-58-2
Crystalline Silica, quartz	< 1.2%	14808-60-7

**SECTION 4 FIRST AID MEASURES**

CALL TOLL FREE 1-877-740-5015

- Skin: Remove contaminated clothing. Wash thoroughly with soap and water. Call a physician or poison control center if irritation develops.
- Eyes: Remove contact lenses if any. Rinse eyes with water for 15 minutes. Get medical attention if irritation develops.
- Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Call a poison control center or physician if symptoms persist.
- Ingestion: **NEVER** give anything by mouth if victim is unconscious. Have victim rinse mouth thoroughly with water. **DO NOT INDUCE VOMITING.** If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call the Poison Control Center at 1-877-740-5015.

**SECTION 5 FIRE FIGHTING MEASURES**

- Extinguishing Media: Use dry chemical, CO<sub>2</sub>, water, or foam extinguisher.
- Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.
- Unusual Fire and Explosion Hazards: None known.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

- Spill or Leak Procedures: Pick up released product with appropriate implements and return to original container if reusable. If not reusable, place in appropriate containers for disposal. Appropriate personal protective equipment cited in Section 8 should be worn during all clean-up operations.

**SECTION 7 HANDLING AND STORAGE**

- Handling: Avoid contact with eyes, skin, or clothing. Do not take internally. Avoid breathing vapors or fumes. Use only with adequate ventilation. Wash thoroughly after handling. Keep container closed when not in use. Handle with care. Keep out of reach of children.
- Storage: Store in original, labeled container.
- Other: Containers, even empty, will retain residue and may be harmful.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

<u>INGREDIENTS:</u>	<u>CAS NUMBER:</u>	<u>ACGIH TLV TWA</u>	<u>OSHA PEL TWA</u>
Calcium carbonate	1317-65-3	10 mg/m <sup>3</sup> (<1% crystalline silica)	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable)
2-butoxyethanol	111-76-2	20 ppm	50 ppm
Titanium dioxide	13463-67-7	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> (total dust)
Crystalline silica	14808-60-7	0.025 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> / %SiO <sub>2</sub>

- Ventilation: Good general ventilation (equivalent to outdoors) should be adequate for normal use. For operations where the TLV may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.
- Respiratory Protection: For operations where the TLV may be exceeded, a NIOSH approved particulate / organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.
- Skin Protection: Normally not needed. Launder soiled clothing before re-use.
- Eye Protection: Safety glasses with sideshields or safety goggles.
- Other: Eye wash and safety shower should be available.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint / Method: > 145 Degrees F (62 Degrees C). (Estimated)  
Flammability: LEL = Not determined, UEL = Not determined.  
Boiling Point: Not determined.  
Melting Point: Not determined.  
Vapor Pressure: Not determined.  
Vapor Density: (Air = 1) Greater than 1.  
Volatile Components: Not determined.  
Solubility In Water: Negligible.  
pH: Not applicable.  
Specific Gravity: 1.74 @ 20 Degrees C.  
Evaporation Rate: Not applicable.  
Appearance: Thick white paste.  
Odor: Petroleum odor.  
Will Dissolve In: Not determined.  
Material Is: Paste.

## SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.  
Conditions To Avoid: None.  
Hazardous Decomposition Products: Hydrocarbons, aldehydes, smoke, carbon monoxide, carbon dioxide. Oxides of nitrogen, titanium, calcium. Small amounts of hydrogen fluoride may evolve at very high temperatures.  
Incompatibility/ Materials To Avoid: Strong oxidizing agents, strong acids.  
Hazardous Polymerization: Will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation: Vapors may cause headache, dizziness, and irritation to mucous membranes. Dust may contain crystalline silica. Long term inhalation may cause silicosis or cancer. Above 300 degrees C, product may liberate fine particulate fume, which if inhaled, can produce polymer fume fever, a temporary flu-like condition.

Skin: Contact may cause mild irritation.

Eye: Vapors or fumes may cause redness and irritation.

Ingestion: May cause irritation.

Toxicity Data: 2-Butoxyethanol: Oral LD50 (rat): 1,746 mg/kg.  
Dermal LD50 (rabbit): 435 mg/kg.  
Inhalation LC50 (mouse): 7h: 700ppm.

Calcium Carbonate: Oral LD50 (rat): 6,450 mg/kg.

Nonylphenol ethoxylate: Oral LD50 (rat): 3,310 mg/kg.

Sensitization: None of the components are known to cause sensitization.

Carcinogenicity: Crystalline silica is listed by IARC as a Group 1 carcinogen (carcinogenic to humans). ACGIH lists crystalline silica as a suspect human carcinogen (A2). Titanium dioxide is listed by IARC as a Group 2B carcinogen (possibly carcinogenic to humans) and ACGIH lists titanium dioxide as A4 (not classifiable as a human carcinogen).

Mutagenicity: None of the components have been found to be mutagenic.

Reproductive Toxicity: None of the components are known to cause adverse reproductive effects.

Medical Conditions Aggravated By Exposure: Persons with pre-existing skin or lung disorders may be at increased risk from exposure to this product.

**SECTION 12 ECOLOGICAL INFORMATION**

Acute Aquatic Effects Data: 2-Butoxyethanol: 24 h LC50 (goldfish): 1,650 - 1700 mg/l.  
 96 h LC50 (fathead minnow): 2137 mg/l.  
 24 h LC50 (daphnia): 1,850 mg/l.  
 48 h LC50 (daphnia): 835 mg/l.

VOC Information: This product emits VOC's (Volatile organic compounds) in its use. Make sure that use of this product complies with local VOC emission regulations, where they exist.

VOC Content: 87 grams/liter Per Method 94515(b) of Title 17 of the California Code of Regulations.

**SECTION 13 DISPOSAL CONSIDERATIONS**

Waste Disposal: Dispose of in accordance with federal, state, and local regulations. It is the responsibility of the end-user to determine at the time of disposal of the product.

EPA Hazardous Waste Number: None.

EPA Hazard Waste Class: None.

**SECTION 14 TRANSPORT INFORMATION**

DOT

Proper Shipping Name: Not regulated in quantities less than 119 gallons.

Hazard Class/Packing Group: None.

UN/NA Number: None.

Hazard Labels: None.

IMDG

Proper Shipping Name: Not regulated.

Hazard Class/Packing Group: None.

UN/NA Number: None.

Hazard Labels: None.

**SECTION 15 REGULATORY INFORMATION**

Hazard Category for Section 311/312: Acute Health, Chronic Health, Fire

Section 302 Extremely Hazardous Substances (TPQ): This product does not contain chemicals regulated under SARA Title III, Section 302.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

<u>Chemical</u>	<u>CAS #</u>	<u>% by wt.</u>
2-Butoxyethanol	111-76-2	3 – 7%

CERCLA 103 Reportable Quantity: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for 2-butoxyethanol (10% max) of 1 lb, is 10 lbs.

<u>Chemical</u>	<u>CAS #</u>	<u>RQ, lbs.</u>
2-Butoxyethanol	111-76-2	*

\* A statutory RQ of one pound was assigned. No final RQ has been assigned to the broad class of glycol ethers.

California Proposition 65: Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations. This product may contain a small quantity of crystalline silica and tetrafluoroethylene, which are known to the State of California to cause cancer.

SECTION 15 (Continued)

TSCA Inventory:

Canadian WHMIS Classification:

All of the components of this product are listed on the TSCA inventory.  
 Class D, Division 2, Subdivision B; B3; D1A; D2A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**SECTION 16**

**OTHER INFORMATION**

NFPA and HMIS:

NFPA Hazard Signal

HMIS Hazard Signal:

Health: 2

Health: 2\*

Flammability: 2

Flammability: 2

Reactivity: 0

Reactivity: 0

Special: None

PPE: A

Part Numbers Covered  
 by this MSDS:

023001	023020-12	023040	023066	023259
023005	023020-48	023041	023067	023260
023005-144	023021	023042	023071	023270
023008	023021-48	023043	023074	090 2050
023012	023021-C	023044	023075	090 2055
023013	023022	023045	023077	098420-A
023013-C	023024	023045-D	023090	099982
023014	023026	023046	023105	099983
023015	023026-48	023047	023150	099984
023015-12	023028-12	023048	023200	374003
023015-48	023028-48	023050	023201	374017
023015-C	023029	023051	023202	374017-HB
023015-D	023030	023052	023203	374018-HB
023015-DB	023030-D	023053	023204	374031
023016	023031	023054	023210	374060
023017	023032	023055	023250	374070
023017-48	023033	023056	023251	374075
023019	023034	023057	023253	4047429
023019-12	023035	023058	023254	441013
023019-48	023036	023059	023255	45281
023019-C	023037	023060	023256	45282
023020	023038	023065	023257	PV023253

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