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

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

Information Telephone Number: (800)228-9681

Prepared By: Technical Dept.

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

Preparation Date: January 8, 2010

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

INGREDIENTS: % wt/wt: CAS NUMBER:
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, CO2, 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
<table>
<thead>
<tr>
<th>INGREDIENTS:</th>
<th>CAS NUMBER:</th>
<th>ACGIH TLV TWA</th>
<th>OSHA PEL TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>1317-65-3</td>
<td>10 mg/m^3 (&lt;1% crystalline silica)</td>
<td>5 mg/m^3 (respirable)</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>20 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>10 mg/m^3</td>
<td>15 mg/m^3 (total dust)</td>
</tr>
<tr>
<td>Crystalline silica</td>
<td>14808-60-7</td>
<td>0.025 mg/m^3</td>
<td>10 mg/m^3 / %SiO_2</td>
</tr>
</tbody>
</table>

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.
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:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS #</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>3 – 7%</td>
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</table>

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.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS #</th>
<th>RQ, lbs.</th>
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</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>*</td>
</tr>
</tbody>
</table>

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

Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65: This product may contain a small quantity of crystalline silica and tetrafluoroethylene, which are known to the State of California to cause cancer.

TSCA Inventory: All of the components of this product are listed on the TSCA inventory.
SECTION 15 (continued)

Canadian WHMIS Classification: 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:

<table>
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<tr>
<th>NFPA Hazard Signal</th>
<th>Health: 2</th>
<th>Flammability: 2</th>
<th>Reactivity: 0</th>
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<tr>
<td>HMIS Hazard Signal:</td>
<td>Health: 2*</td>
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Part Nos. Covered by this MSDS:

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