

SAFETY DATA SHEET

1/29/2024: File reviewed, more courrent MSDS/SDS not available. CAS

1. Identification	
Product identifier	TFE Paste
Other means of identification	
SDS number	3701E
Synonyms	Part Numbers: 23014, 23015, 23030, 23045, 23060, 23075
Recommended use	Pipe Joint Compound for Threaded Metal Pipes
Recommended restrictions	None known.
Manufacturer/Importer/Supplier	/Distributor information
Company Name	William H. Harvey Company
Address	4334 South 67th Street
	Omaha, NE 68117
Telephone	402-331-1175
E-mail	info@oatey.com
Transport Emergency	Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)
Emergency First Aid	1-877-740-5015
Contact person	MSDS Coordinator
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. The thermal decomposition vapors of fluorinated polymers may cause polymer fume fever.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Calcium carbonate	1317-65-3	50-70
Oxidized Soy Bean Oil	68152-81-8	10-30
Polyfluoroethylene	9002-84-0	3-7
2-Butoxyethanol	111-76-2	1-5
Alkyl Quaternary Ammonium Bentonite	68953-58-2	1-5
Distillates (petroleum), Hydrotreated Light Naphthenic	64742-53-6	1-5

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	1-5
Titanium dioxide	13463-67-7	1-5
Quartz	14808-60-7	<1.3

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Cool material exposed to heat with water spray and remove it if no risk is involved.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

	Туре	Value	Form
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
Calcium carbonate (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Distillates (petroleum), Hydrotreated Light Naphthenic (CAS 64742-53-6)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Quartz (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910	0.1000)		
Components	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
			Tatal durat
		50 mppcf	Total dust.
		50 mppcf 15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Value	S		Respirable fraction.
US. ACGIH Threshold Limit Value Components	rs Type		
Components 2-Butoxyethanol (CAS		15 mppcf	Respirable fraction.
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy	Туре	15 mppcf Value	Respirable fraction.
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum),	Type TWA	15 mppcf Value 20 ppm	Respirable fraction.
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS	Type TWA	15 mppcf Value 20 ppm	Respirable fraction.
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Type TWA TWA	15 mppcf Value 20 ppm 5 mg/m3	Respirable fraction. Form Inhalable fraction.
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Quartz (CAS 14808-60-7) Titanium dioxide (CAS	Type TWA TWA TWA TWA	15 mppcf Value 20 ppm 5 mg/m3 0.025 mg/m3	Respirable fraction. Form Inhalable fraction.
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7)	Type TWA TWA TWA TWA	15 mppcf Value 20 ppm 5 mg/m3 0.025 mg/m3	Respirable fraction. Form Inhalable fraction.
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7) US. NIOSH: Pocket Guide to Cher Components 2-Butoxyethanol (CAS	Type TWA TWA TWA TWA mical Hazards	15 mppcf Value 20 ppm 5 mg/m3 0.025 mg/m3 10 mg/m3	Respirable fraction. Form Inhalable fraction. Respirable fraction.
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7) US. NIOSH: Pocket Guide to Cher Components	Type TWA TWA TWA TWA mical Hazards Type	15 mppcf Value 20 ppm 5 mg/m3 0.025 mg/m3 10 mg/m3 Value 24 mg/m3	Respirable fraction. Form Inhalable fraction. Respirable fraction.
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7) US. NIOSH: Pocket Guide to Cher Components 2-Butoxyethanol (CAS 111-76-2)	Type TWA TWA TWA TWA mical Hazards Type TWA	15 mppcf Value 20 ppm 5 mg/m3 0.025 mg/m3 10 mg/m3 Value 24 mg/m3 5 ppm	Respirable fraction. Form Inhalable fraction. Respirable fraction. Form
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7) US. NIOSH: Pocket Guide to Cher Components 2-Butoxyethanol (CAS	Type TWA TWA TWA TWA mical Hazards Type	15 mppcf Value 20 ppm 5 mg/m3 0.025 mg/m3 10 mg/m3 Value 24 mg/m3 5 ppm 5 mg/m3	Respirable fraction. Form Inhalable fraction. Respirable fraction. Form Respirable.
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7) US. NIOSH: Pocket Guide to Cher Components 2-Butoxyethanol (CAS 111-76-2) Calcium carbonate (CAS 1317-65-3)	Type TWA TWA TWA TWA mical Hazards Type TWA TWA	15 mppcf Value 20 ppm 5 mg/m3 0.025 mg/m3 10 mg/m3 Value 24 mg/m3 5 ppm 5 mg/m3 10 mg/m3	Respirable fraction. Form Inhalable fraction. Respirable fraction. Form
Components 2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7) US. NIOSH: Pocket Guide to Cher Components 2-Butoxyethanol (CAS 111-76-2) Calcium carbonate (CAS 1317-65-3) Distillates (petroleum), hydrotreated heavy naphthenic (CAS	Type TWA TWA TWA TWA mical Hazards Type TWA	15 mppcf Value 20 ppm 5 mg/m3 0.025 mg/m3 10 mg/m3 Value 24 mg/m3 5 ppm 5 mg/m3	Respirable fraction. Form Inhalable fraction. Respirable fraction. Form Respirable.
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US. NIOSH: Pocket Guide to Chemical Hazards

Туре	Value	Form
TWA	5 mg/m3	Mist.
Ceiling	1800 mg/m3	
STEL	10 mg/m3	Mist.
TWA	0.05 mg/m3	Respirable dust.
	TWA Ceiling STEL	TWA 5 mg/m3 Ceiling 1800 mg/m3 STEL 10 mg/m3

Biological limit values

ACGIH Biological Exposure Indices

0 1				
Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
* - For sampling details, plea	ase see the source doc	ument.		
xposure guidelines				
US - California OELs: Skir	designation			
2-Butoxyethanol (CAS US - Minnesota Haz Subs:	<i>'</i>		absorbed throu	ugh the skin.
2-Butoxyethanol (CAS	111-76-2)	Skin de	signation appli	es.
US - Tennessee OELs: Ski	in designation			
2-Butoxyethanol (CAS US. NIOSH: Pocket Guide		Can be	absorbed thro	ugh the skin.
2-Butoxyethanol (CAS US. OSHA Table Z-1 Limit			absorbed throu)0)	ugh the skin.
2-Butoxyethanol (CAS	111-76-2)	Can be	absorbed through	ugh the skin.
ppropriate engineering ontrols	should be matched or other engineering	to conditions. If app g controls to mainta	olicable, use pro in airborne leve	hour) should be used. Ventilation rates beess enclosures, local exhaust ventilation els below recommended exposure limits. I irborne levels to an acceptable level.
dividual protection measure	s, such as personal pi	rotective equipme	nt	
Eye/face protection	Wear safety glasse	s with side shields (or goggles).	
Skin protection Hand protection	Wear appropriate c	hemical resistant gl	oves.	
Skin protection				
Other	Wear suitable prote	ctive clothing.		
Respiratory protection	In case of insufficie	nt ventilation, wear	suitable respira	tory equipment.
Thermal hazards	Wear appropriate th	nermal protective cl	othing, when ne	ecessary.
eneral hygiene onsiderations		drinking, and/or smo		ch as washing after handling the material y wash work clothing and protective

9. Physical and chemical properties

Appearance

••	
Physical state	Liquid.
Form	Liquid paste.
Color	White.
Odor	Petroleum.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.

Flash point	153.0 °F (67.2 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	< 1
Relative density	1.7
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	30000 cP
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC	86 g/l 4.9% by weight
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Fluorine. Acids.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological informat	ion
Information on likely routes of e	xposure
Inhalation	Prolonged inhalation may be harmful.
Skin contact	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Information on toxicological effe	ects
Acute toxicity	Not expected to be acutely toxic.
Components	Species Test Results
Titanium dioxide (CAS 13463-67-7	

Titanium dioxide (CAS 13463-67-7) <u>Acute</u>

Inhalation LC50

3.43 mg/l, 4 Hours

Rat

Components	Species	Test Results	
Oral			
LD50	Rat	> 5000 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye rritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitization	I		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to	o cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	product or any components present at greater than 0.1% are	
Carcinogenicity	In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)		
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
2-Butoxyethanol (CAS 11 Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13 NTP Report on Carcinogens	463-67-7)	3 Not classifiable as to carcinogenicity to humans.1 Carcinogenic to humans.2B Possibly carcinogenic to humans.	
•	drotreated heavy naphthenic	Known To Be Human Carcinogen.	
(CAS 64742-52-5) Quartz (CAS 14808-60-7)		Known To Be Human Carcinogen.	
Quartz (CAS 14808-60-7)	-	Cancer	
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects		rough skin. Prolonged inhalation may be harmful.	
	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated a prolonged. These effects have not been observed in humans.		
	Prolonged exposure may caus	se chronic effects	
	.		
12. Ecological information			
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment		
Persistence and degradability	No data is available on the de	gradability of this product.	
Bioaccumulative potential	No data available.		
Partition coefficient n-octane 2-Butoxyethanol (CAS 111-76-		0.83	
Mobility in soil	No data available.		
Other adverse effects	The product contains volatile on potential.	organic compounds which have a photochemical ozone creation	
13. Disposal consideration	IS		
Disposal instructions		in sealed containers at licensed waste disposal site.	
Local disposal regulations	Dispose in accordance with al		
Hazardous waste code	•	signed in discussion between the user, the producer and the waste	

Waste from residues / unused products			ns. Empty containers or liners may retain some ner must be disposed of in a safe manner (see:
Contaminated packaging			residue, follow label warnings even after container is o an approved waste handling site for recycling or
14. Transport information			
DOT			
Not regulated as dangerous g	oods.		
ΙΑΤΑ			
Not regulated as dangerous g	oods.		
IMDG			
Not regulated as dangerous g			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.		
General information	DOT: Not regulated as da regulated if in a container		ept when shipped in bulk. This material is not L) capacity or less.
15. Regulatory information	า		
US federal regulations	All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA Section 12(b) Export I	Notification (40 CFR 707,	Subpt. D)	
Not regulated.			
OSHA Specifically Regulate			
Quartz (CAS 14808-60-7))	Cancer lung effects immune syste	em effects
		kidney effects	3
CERCLA Hazardous Substa			
2-Butoxyethanol (CAS 11		LISTED	
Superfund Amendments and Re Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No	(SARA)	
	Reactivity Hazard - No		
SARA 302 Extremely hazarc Not listed.	lous substance		
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.
2-Butoxyethanol		111-76-2	1-5
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollut	tants (HAPs) List	
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Release	e Prevention (40 C	FR 68.130)
Not regulated.	Not regulate -		
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations	WARNING: This product	contains a chemical	known to the State of California to cause cancer.
US - California Proposit	ion 65 - Carcinogens & R	eproductive Toxici	ty (CRT): Listed substance
Quartz (CAS 14808- Titanium dioxide (CA	S 13463-67-7)		
US. Massachusetts RTK			
2-Butoxyethanol (CA	5 111-76-2)		211 202

Calcium carbonate (CAS 1317-65-3) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Distillates (petroleum), Hydrotreated Light Naphthenic (CAS 64742-53-6) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethanol (CAS 111-76-2) Calcium carbonate (CAS 1317-65-3) Distillates (petroleum), Hydrotreated Light Naphthenic (CAS 64742-53-6) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2) Calcium carbonate (CAS 1317-65-3) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7)

US. Rhode Island RTK

Calcium carbonate (CAS 1317-65-3) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Distillates (petroleum), Hydrotreated Light Naphthenic (CAS 64742-53-6) Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-February-2015
Revision date	26-April-2017
Version #	02
HMIS® ratings	Health: 0 Flammability: 2 Physical hazard: 0
NFPA ratings	
Disclaimer	William H. Harvey Company c

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