



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material Name Pump Kleen
Revision Date 10/3/2012
Version # 06
Product Use Pump and hose flush
Manufacturer / Supplier FTS International
2500 HWY 62 West
Chickasha, OK 73018
US
General information: 1-405-222-2300
Emergency 24 Hour Emergency: INFOTRAC: 1-800-535-5053

2. Hazards Identification

Physical State Liquid
Appearance Clear liquid.
Emergency Overview WARNING: Harmful if swallowed - may enter lungs if swallowed or vomited. Prolonged or repeated contact may dry skin and cause irritation. Combustible liquid and vapor.
OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.
Routes of exposure
Eyes Direct contact with eyes may cause temporary irritation.
Skin Prolonged or repeated contact may dry skin and cause irritation.
Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Ingestion Harmful if swallowed - may enter lungs if swallowed or vomited.
Potential environmental effects Not expected to be harmful to aquatic organisms.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Raffinates (petroleum), sorption process	64741-85-1	0 - 100
White mineral oil	8042-47-5	0 - 100
Polybutene (Isobutylene/Butene copolymer)	9003-29-6	0 - 100

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

4. First Aid Measures

First aid procedures
Eye Contact Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.
Skin Contact Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.
Ingestion Call a physician or poison control center immediately. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration.
Notes to physician Not available.

5. Fire Fighting Measures

Flammable Properties Combustible liquid and vapor.

Extinguishing media**Suitable extinguishing media** Use fire-extinguishing media appropriate for surrounding materials.**Unsuitable extinguishing media** Not available.**Specific Hazards arising from the Chemical** Not available.**Firefighting equipment / instructions**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific Methods

Use water spray to cool unopened containers.

Hazardous combustion products

Carbon oxides.

6. Accidental Release Measures**Personal precautions**

Wear appropriate personal protective equipment (See Section 8).

Methods for cleaning up

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste for proper disposal.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

7. Handling and Storage**Handling**

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Storage

Keep away from heat, sparks, and flame. Keep container closed. Store away from incompatible materials (See Section 10).

8. Exposure Controls / Personal Protection**Occupational exposure limits****US. ACGIH Threshold Limit Values**

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Raffinates (petroleum), sorption process	Not available.	Not available.	Not available.	Not available.
White mineral oil	Not available.	Not available.	Not available.	Not available.
Polybutene (Isobutylene/Butene copolymer)	Not available.	Not available.	Not available.	Not available.

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

Components	PEL	
	ppm	mg/m3
Raffinates (petroleum), sorption process	Not available.	Not available.
White mineral oil	Not available.	5 (mist)
Polybutene (Isobutylene/Butene copolymer)	Not available.	Not available.

Canada. Alberta OELs (Occupational Health Safety Code, Schedule 1, Table 2)

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Raffinates (petroleum), sorption process	Not available.	Not available.	Not available.	Not available.
White mineral oil	Not available.	Not available.	Not available.	Not available.
Polybutene (Isobutylene/Butene copolymer)	Not available.	Not available.	Not available.	Not available.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Raffinates (petroleum), sorption process	Not available.	Not available.	Not available.	Not available.
White mineral oil	Not available.	Not available.	Not available.	Not available.
Polybutene (Isobutylene/Butene copolymer)	Not available.	Not available.	Not available.	Not available.

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents) Components

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Raffinates (petroleum), sorption process	Not available.	Not available.	Not available.	Not available.
White mineral oil	Not available.	5 (mist)	Not available.	10 (mist)
Polybutene (Isobutylene/Butene copolymer)	Not available.	Not available.	Not available.	Not available.

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) Components

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Raffinates (petroleum), sorption process	Not available.	Not available.	Not available.	Not available.
White mineral oil	Not available.	5 (mist)	Not available.	10 (mist)
Polybutene (Isobutylene/Butene copolymer)	Not available.	Not available.	Not available.	Not available.

Mexico. Occupational Exposure Limit Values

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Raffinates (petroleum), sorption process	Not available.	Not available.	Not available.	Not available.
White mineral oil	Not available.	5 (mist)	Not available.	10 (mist)
Polybutene (Isobutylene/Butene copolymer)	Not available.	Not available.	Not available.	Not available.

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.

General hygiene consideration

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance:

Clear liquid.

Color

Colorless to pale yellow.

Odor	Hydrocarbon.
Odor threshold	Not available.
Physical State	Liquid
Form	Liquid.
pH	Not applicable.
Melting point	Not available.
Freezing point	-15 °F (-26.1 °C)
Boiling point	Not available.
Flash point	147.2 °F (64 °C) (minimum)
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific Gravity	0.78 - 0.822 (25°C)
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Bulk Density	6.51 - 6.86 lb/gal
VOC	Not available.
Viscosity	Not available.
Percent volatile	Not available.

10. Chemical Stability Reactivity Information

Chemical Stability	Material is stable under normal conditions.
Conditions to avoid	Keep away from heat, sparks, and flame.
Incompatible material	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.
Possibility of hazardous reaction	Hazardous polymerization does not occur.

11. Toxicology Information

Toxicological Data

Components	Test Results
Raffinates (petroleum), sorption process	Not available.
White mineral oil	Not available.
Polybutene (Isobutylene/Butene copolymer)	Not available.
Sensitization	No sensitizing effects known.

Carcinogenicity

Raffinates (petroleum), sorption process	Not available.
White mineral oil	ACGIH: A4 Not classifiable as a human carcinogen.
Polybutene (Isobutylene/Butene copolymer)	Not available.

Epidemiology Not available.

Mutagenicity Not available.

Reproductive effects Not available.

Teratogenicity Not available.

Further Information Not available.

12. Ecological Information

Ecotoxicological data

Components

Test Results

Raffinates (petroleum), sorption process	Not available.
White mineral oil	Not available.
Polybutene (Isobutylene/Butene copolymer)	Not available.

Ecotoxicity Not expected to be harmful to aquatic organisms.

Persistence and degradability Not available.

Bioaccumulation / Accumulation Not available.

Mobility in environmental media Not available.

Partition coefficient (n-octanol/water) Not available.

13. Disposal Considerations

Waste codes Not available.

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

UN number

Proper shipping name Not regulated as dangerous goods.

Hazard class

Packing Group

Labels required

DOT reportable quantity Not available.

Additional information Depending on the formulation, this product is not classified for transport due to the flashpoint exceeding 93°C or testing by ASTM D 4206 has shown it does not sustain combustion. See 49 CFR 173.120 for more information.

Special provisions

Packaging exceptions

Packaging non bulk

Packaging bulk

ERG number**IATA****UN number****Proper shipping name** Not regulated as dangerous goods.**Hazard class****Packing group****Additional information****ERG code****IMDG****UN number****Proper shipping name** Not regulated as dangerous goods.**Hazard class****Packing group****EmS No****IMDG Additional information:****15. Regulatory Information****US federal regulation** This product is hazardous according to OSHA 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.**CERCLA (Superfund) Reportable
Quantity:** None**Superfund amendments and Reauthorization Act of 1986 (SARA)**

Hazard Categories	Immediate Hazard:	Yes
	Delayed Hazard:	Yes
	Fire Hazard:	Yes
	Pressure Hazard:	No
	Reactivity Hazard:	No

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D): Not regulated.

Section 302 extremely hazardous substance (40 CFR 355, Appendix A): No

Section 311/312 (40 CFR 370): No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15): Not controlled.

Inventory Status

Country	Inventory Name	On Inventory *
Australia	AICS	Yes
Canada	DSL	Yes
Canada	NDSL	No
China	IECSC	Yes
Europe	EINECS	Yes
Europe	ELINCS	No
Japan	ENCS	No
Korea	ECL	Yes
New Zealand	NZI	Yes
United States / Puerto Rico	TSCA	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

WHMIS Information

WHMIS status Controlled

WHMIS classification B3 - Flammable/Combustible
D2A - Other Toxic Effects-VERY TOXIC

State Regulation

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance
White mineral oil (CAS 8042-47-5) Listed.

US - Massachusetts RTK - Substance: Listed substance
White mineral oil (CAS 8042-47-5) Listed.

US - New Jersey RTK - Substances: Listed substance
White mineral oil (CAS 8042-47-5) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance
White mineral oil (CAS 8042-47-5) Listed.

16. Other Information**Further Information**

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1
Flammability: 2
Physical Hazard: 0

A HMIS® rating including an * indicates a chronic hazard.

NFPA ratings

Health: 1
Flammability: 2
Instability: 0

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