

## Safety Data Sheet I. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	PRFSTOP DOT4 BRK FL 12/1		
Product Code:	PS21BFPL		
<b>Emergency Phone:</b>	CHEMTREC: +1 (800) 424-9300		
	International: +01 (703) 527-3887		
Poison Control	(800) 222-1222		
Center:			
Company:	Warren Distribution, Inc.		
	727 S. 13th Street		
	Omaha, NE 68102		
Information Phone: E-mail:	+01 (800) 825-1235 +01 (402) 341-9397 sds@wd-wpp.com		

### II. HAZARDS IDENTIFICATION

<b>Routes of Entry:</b>	Absorption, Eye contact, Inhalation, Ingestion		
Target Organs:	Eyes, Skin, Kidneys		
<b>Chemical Interactions:</b>	: No chemical interaction known to affect toxicity.		
<b>Conditions Aggravated</b>	Conditions Aggravated Skin disease including eczema and sensitization, Eye disease, Kidney disease		
by Exposure:			
Acute Health Effects:			
Inhalation Irritation:	No hazard in normal industrial use.		

Inhalation Irritation:	No hazard in normal industrial use.
Skin Contact:	No hazard in normal industrial use.
Skin Absorption:	No absorption hazard in normal industrial use.
Eye Contact:	Contact with the eyes may cause moderate to severe eye injury. Eye contact may result
	in tearing and reddening, but not likely to permanently injure eye tissue. Temporary
	vision impairment (cloudy or blurred vision) is possible.
Ingestion Irritation:	May be harmful or fatal if swallowed. Excessive exposure may cause central nervous
	system effects, cardiopulmonary effects (metabolic acidosis), kidney failure, or death.
Chronic Health Effects:	-

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<b>Carcinogenicity:</b>	Not a carcinogen according to NTP, IARC, or OSHA.
Reproductive	No data available to indicate product or any components present at greater than 0.1%
Toxicity:	may cause birth defects.
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% is
	mutagenic or genotoxic.

	HMI	<u>S Ratings:</u>	<u>NFPA Rating</u>	<u>gs:</u>	
	Healt	h: 2	Health:	2	
	Fire:	1	Fire:	1	
	React	ivity: 0	Reactivity:	0	
	PPE:	В			
KEY:	0 - Least	1 - Slight	2 - Moderate	3 - High	4 – Extreme

## III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #	OSHA Exposure Limits
2,5,8,11-Tetraoxatridecan-13-ol, mixed esters with boric acid	30 - 60	176022-80-3	
Ethanol, 2-(2-(2-ethoxyethoxy)ethoxy)-	10 - 30	112-50-5	
Ethanol, 2-(2-(2-methoxyethoxy)ethoxy)-	10 - 30	112-35-6	
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	7 - 13	143-22-6	
Tetraethylene glycol	3 - 7	112-60-7	
Diethylene glycol	1 - 5	111-46-6	
Components not listed are not physical or health hazards	as defined i	n 29 CFR 1910.1	200 (Hazard Communication
Standard).			<b>`</b>

### **IV. FIRST-AID MEASURES**

Inhalation:	This material does not present a hazard if inhaled. Remove individual to fresh air after
	an airborne exposure if any symptoms develop, as a precautionary measure.
Eyes:	Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids
	often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get
	immediate medical attention and monitor the eye daily as advised by your physician.
Skin Contact:	Wash with soap and water.
Ingestion:	Seek medical attention immediately or call the Poison control center. Do not induce
	vomiting. If patient is fully conscious, give up to two glasses of water. Provide medical
	care provider with this SDS. Contains a harmful substance. Seek medical help
	immediately and contact a poison information service. Drink two glasses of water or
	milk to dilute.
Notes to Doctor:	No additional first aid information available.

### V. FIRE FIGHTING MEASURES

Flammability	Combustible at elevated temperatures
Summary:	
Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.
Fire and/or Explosion Hazards:	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.
Fire Fighting Methods and Protection: Hazardous Combustion Products:	Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Use methods for the surrounding fire. Carbon dioxide, Carbon monoxide

### VI. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Exposure to the spilled material may be irritating or harmful. Follow personal protective
and Equipment:	equipment recommendations found in Section 8 of this SDS. Additional precautions
	may be necessary based on special circumstances created by the spill including; the
	material spilled, the quantity of the spill, the area in which the spill occurred. Also
	consider the expertise of employees in the area responding to the spill.
Methods for Clean-up:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center. Do not flush to sewer.

### VII. HANDLING AND STORAGE

Handling Precautions:	Harmful or irritating material. Avoid contacting and avoid breathing the material. Use		
	only in a well ventilated area. Empty containers may retain product residues/ vapors.		
	Use proper bonding and grounding during bulk product transfer.		
Storage Conditions:	Store in a cool dry place. Isolate from incompatible materials.		

### VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	No engineering controls are likely to be required to maintain operator comfort under
	normal conditions of use. Ventilation is required to maintain worker comfort and ensure
	employees are not overexposed.
Respiratory	No respiratory protection required under normal conditions of use.
Protection:	
<b>Respirator Type(s):</b>	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.
Skin Protection:	Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves:	Butyl rubber, Polyethylene

### Chemical Name

Occupational Exposure Limits Value

### X. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Colorless to pale amber
Odor:	Mild
pH:	8.6
Solubility in Water:	Complete; 100%
Octanol/Water	Not determined
<b>Partition Coefficient:</b>	
<b>Evaporation Rate:</b>	Not determined
Vapor Density:	Not determined
Vapor Pressure:	Not determined
Boiling Point (°C):	275
Freezing Point (°C):	Not determined
Specific Gravity:	1.07
Density:	8.94
Flash Point (°C):	121
Flash Point Method:	ASTM D93
Upper Flammability	Not established
Limit, % in air:	
Lower Flammability	Not established
Limit, % in air:	

### X. STABILITY AND REACTIVITY

Stable under normal conditions.
Temperatures above the high flash point of this combustible material in combination
with sparks, open flames, or other sources of ignition.
Strong oxidizing agents, Heat, sparks, or other sources of ignition.
Carbon dioxide, Carbon monoxide
Hazardous polymerization will not occur.

### XI. TOXICOLOGICAL INFORMATION

<u>Acute Toxicity:</u>	
Ingestion:	No hazard in normal industrial use.
Inhalation:	No hazard in normal industrial use.
Absorption:	No absorption hazard in normal industrial use.
Eyes:	This material is likely to be severely irritating to eyes based on animal data.
Skin:	Likely to be non-irritating to skin based on animal data.
Sensitization:	No data available to indicate product or components may be a skin sensitizer.

Component Toxicology Data:		
Chemical Name	CAS #	LD50/LC50
Ethanol, 2-(2-(2-ethoxyethoxy)ethoxy)-	112-50-5	Oral LD50 Rat 7750 mg/kg; Dermal LD50
		Rabbit 3540 mg/kg
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Oral LD50 Rat 5300 mg/kg (Source: IUCLID);
		Dermal LD50 Rabbit 3480 mg/kg (Source:
		IUCLID)
Tetraethylene glycol	112-60-7	Dermal LD50 Rabbit >20 g/kg (Source:
		NLM_CIP)
Diethylene glycol	111-46-6	Dermal LD50 Rabbit 11890 mg/kg (Source:
		NLM_CIP); Oral LD50 Rat 12565 mg/kg
		(Source: IUCLID)

### XII. ECOLOGICAL INFORMATION

		<u> </u>		
Mobility:		is expected to hates. {EMSFORM_	we essentially no mobility in soil. It absorbs strongly to _12MOBA}	
Persistence:	Biodegradati	Biodegradation, adsorption to sediment, and bioconcentration to aquatic organisms		
	should not be	-		
<b>Bioconcentration:</b>	Bioconcentra	Bioconcentration is not expected to occur.		
Degradability:	Biodegrades at a moderate rate.			
Toxicity to Aquatic Inv	vertebrates:	CAS #	Results	
Triethylene glycol monomethyl ether		112-35-6	48 Hr EC50 Daphnia magna: >500 mg/L	
Triethylene glycol monobutyl ether		143-22-6	48 Hr EC50 Daphnia magna: >500 mg/L	
Tetraethylene glycol		112-60-7	48 Hr EC50 Daphnia magna: >1000 mg/L	
Diethylene glycol		111-46-6	48 Hr EC50 Daphnia magna: 84000 mg/L	
Triethylene glycol monomethyl ether		112-35-6	72 Hr EC50 Desmodesmus subspicatus: >500 mg/L	
Triethylene glycol monobutyl ether		143-22-6	72 Hr EC50 Desmodesmus subspicatus: >500 mg/L	
Tetraethylene glycol		112-60-7	96 Hr EC50 Pseudokirchneriella subcapitata: >1000	
			mg/L	
Toxicity to Fish:		CAS #	Results	
Triethylene glycol mono	omethyl ether	112-35-6	96 Hr LC50 Pimephales promelas: >10000 mg/L	
			[static]; 96 Hr LC50 Brachydanio rerio: >5000 mg/L	
			[static]; 96 Hr LC50 Leuciscus idus: >10000 mg/L	
			[static]	
Triethylene glycol mono	obutyl ether	143-22-6	96 Hr LC50 Leuciscus idus: 2200 - 4600 mg/L	
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		[static]; 96 Hr LC50 Pimephales promelas: 2400
		mg/L [static]; 96 Hr LC50 Pimephales promelas:
		2400 mg/L
Tetraethylene glycol	112-60-7	96 Hr LC50 Oncorhynchus mykiss: >1000 mg/L
		[static]
Diethylene glycol	111-46-6	96 Hr LC50 Pimephales promelas: 75200 mg/L
		[flow-through]

#### XIII. DISPOSAL CONSIDERATIONS

**Disposal Methods**: Dispose of according to Federal, State, Local, or Provincial regulations.

#### XIV. TRANSPORTATION INFORMATION

**D.O.T.** Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

### XV. REGULATORY INFORMATION

TSCA Status:	All components of this material are on the US TSCA Inventory or are exempt.		
State Restrictions:	Not applicable		
WHMIS:	D2B		
Chemical Name	Regulation	CAS #	% Range
None.	CERCLA RQ		-
None.	SARA 313		
None.	SARA 302-EHS		
None.	TSCA 12b export		
	notification		
None.	CA Prop 65 – Cancer		
None.	CA Prop 65 - Dev. Toxicity		
None.	CA Prop 65 - Reprod –fem		
None.	CA Prop 65 - Reprod –male		
Diethylene glycol	Canadian WHMIS List	111-46-6	1 - 5
None.	Massachusetts RTK List		
None.	New Jersey RTK List		
Ethanol, 2,2'-oxybis-	Pennsylvania RTK List	111-46-6	1 - 5
Diethylene glycol	Minnesota Hazardous	111-46-6	1 - 5
	Substance List		

### Consumer Product Safety Improvement Act of 2008 General Conformity Certification:

This product has been evaluated and certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

### XVI. ADDITIONAL INFORMATION

AVI. ADDITION	NAL INFORMATION
Supersedes:	9/4/2014 1:19:10 PM
<b>Revision Date:</b>	1/14/2015 12:34:51 PM
<b>References:</b>	ACGIH: American Conference of Governmental Industrial Hygienists
	AIHA: American Industrial Hygiene Association
	CFR: Code of Federal Regulations
	DOT: United States Department of Transportation
	GHS: Globally Harmonized System of Classification and Labeling of Chemicals
	HMIS: Hazardous Materials Identification System
	IARC: International Agency for Research on Cancer
	IATA: International Air Transportation Association
	IDLH: Immediately Dangerous to Life or Health
	IMDG: International Maritime Dangerous Goods
	NFPA: National Fire Protection Association
	NIOSH: National Institute for Occupational Safety and Health
	NTP: National Toxicology Program
	OSHA: Occupational Safety and Health Administration
	PEL: Permissible Exposure Limit
	RTK: Right-to-Know
	SARA: Superfund Amendments and Reauthorization Act
	STEL: Short-term Exposure Limit
	TLV: Threshold limit value
	TSCA: Toxic Substances Control Act
	TWA: Time weighted average
	UN: United Nations
	WHMIS: Workplace Hazardous Materials Information System
Disclaimer:	This safety data sheet and the information it contains is offered to you in good faith as accurate.
	We have reviewed any information contained in the data sheet which we have received from
	outside sources and we believe the information to be correct, but cannot guarantee its accuracy
	or completeness. Health and safety precautions in this data sheet may not be adequate for all
	individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe
	manner and to comply with all applicable laws and regulations. No statement made in this data
	sheet shall be construed as permission or recommendation for the use of any product in a
	manner that might infringe existing patents. No warranty is made, either expressed or implied.