Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION

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

II. HAZARDS IDENTIFICATION

Routes of Entry: Absorption, Eye contact, Inhalation, Ingestion
Target Organs: Eyes, Skin, Kidneys
Chemical Interactions: No chemical interaction known to affect toxicity.
Conditions Aggravated by Exposure: Skin disease including eczema and sensitization, Eye disease, Kidney disease

Acute Health Effects:
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:
Carcinogenicity: Not a carcinogen according to NTP, IARC, or OSHA.
Reproductive 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.

HMIS Ratings:
Health: 2
Fire: 1
Reactivity: 0
PPE: B

NFPA Ratings:
Health: 2
Fire: 1
Reactivity: 0

KEY: 0 - Least  1 - Slight  2 - Moderate  3 - High  4 – Extreme
III. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>%</th>
<th>CAS #</th>
<th>OSHA Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,5,8,11-Tetraoxatridecan-13-ol, mixed esters with boric acid</td>
<td>30 - 60</td>
<td>176022-80-3</td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2-(2-ethoxyethoxy)ethoxy)-</td>
<td>10 - 30</td>
<td>112-50-5</td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2-(2-methoxyethoxy)ethoxy)-</td>
<td>10 - 30</td>
<td>112-35-6</td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)ethoxy)-</td>
<td>7 - 13</td>
<td>143-22-6</td>
<td></td>
</tr>
<tr>
<td>Tetraethylene glycol</td>
<td>3 - 7</td>
<td>112-60-7</td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>1 - 5</td>
<td>111-46-6</td>
<td></td>
</tr>
</tbody>
</table>

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

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 Summary: Combustible at elevated temperatures

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: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective 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 Protection: No respiratory protection required under normal conditions of use.

Respirator Type(s): 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 Partition Coefficient: Not determined
Evaporation Rate: 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 Limit, % in air: Not established
Lower Flammability Limit, % in air: Not established
X. STABILITY AND REACTIVITY

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

XI. TOXICOLOGICAL INFORMATION

Acute Toxicity:
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:

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

XII. ECOLOGICAL INFORMATION

Mobility: This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types. [EMSFORM_12MOBA]
Persistence: Biodegradation, adsorption to sediment, and bioconcentration to aquatic organisms should not be significant.
Bioconcentration: Bioconcentration is not expected to occur.
Degradability: Biodegrades at a moderate rate.

Toxicity to Aquatic Invertebrates:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-35-6</td>
<td>48 Hr EC50 Daphnia magna: &gt;500 mg/L</td>
</tr>
<tr>
<td>143-22-6</td>
<td>48 Hr EC50 Daphnia magna: &gt;500 mg/L</td>
</tr>
<tr>
<td>112-60-7</td>
<td>48 Hr EC50 Daphnia magna: &gt;1000 mg/L</td>
</tr>
<tr>
<td>111-46-6</td>
<td>48 Hr EC50 Daphnia magna: 84000 mg/L</td>
</tr>
<tr>
<td>112-35-6</td>
<td>72 Hr EC50 Desmodesmus subspicatus: &gt;500 mg/L</td>
</tr>
<tr>
<td>143-22-6</td>
<td>72 Hr EC50 Desmodesmus subspicatus: &gt;500 mg/L</td>
</tr>
<tr>
<td>112-60-7</td>
<td>96 Hr EC50 Pseudokirchneriella subcapitata: &gt;1000 mg/L</td>
</tr>
</tbody>
</table>

Toxicity to Fish:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-35-6</td>
<td>96 Hr LC50 Pimephales promelas: &gt;10000 mg/L [static]; 96 Hr LC50 Brachydanio rerio: &gt;5000 mg/L [static]; 96 Hr LC50 Leuciscus idus: &gt;10000 mg/L [static]</td>
</tr>
<tr>
<td>143-22-6</td>
<td>96 Hr LC50 Leuciscus idus: 2200 - 4600 mg/L</td>
</tr>
</tbody>
</table>
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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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Regulation</th>
<th>CAS #</th>
<th>% Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td>CERCLA RQ</td>
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<tr>
<td>None.</td>
<td>SARA 313</td>
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<tr>
<td>None.</td>
<td>SARA 302-EHS</td>
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<tr>
<td>None.</td>
<td>TSCA 12b export notification</td>
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<tr>
<td>None.</td>
<td>CA Prop 65 – Cancer</td>
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<tr>
<td>None.</td>
<td>CA Prop 65 - Dev. Toxicity</td>
<td></td>
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<tr>
<td>None.</td>
<td>CA Prop 65 - Reprod –fem</td>
<td></td>
<td></td>
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<tr>
<td>None.</td>
<td>CA Prop 65 - Reprod –male</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>Canadian WHMIS List</td>
<td>111-46-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>None.</td>
<td>Massachusetts RTK List</td>
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<td></td>
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<tr>
<td>None.</td>
<td>New Jersey RTK List</td>
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<tr>
<td>Ethanol, 2,2’-oxybis-</td>
<td>Pennsylvania RTK List</td>
<td>111-46-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>Minnesota Hazardous Substance List</td>
<td></td>
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</tr>
</tbody>
</table>

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

Supersedes: 9/4/2014 1:19:10 PM
Revision Date: 1/14/2015 12:34:51 PM
References:
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.