



Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: PSDOT4 BRKFL12/1Q CANADA
Product Code: PS21BFPC
Supplier: Warren Distribution, Inc.
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Omaha, NE 68102
Phone Number: +01 (800) 825-1235 +01 (402) 341-9397
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II. HAZARDS IDENTIFICATION

Acute Health Effects:

Routes of Entry: Absorption, Eye contact, Inhalation, Ingestion
Target Organs: Eyes, Skin, Kidneys
Inhalation: 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: 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: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Potential Health Effects: See Section 11 for more information.

Medical Conditions Aggravated by Exposure: Skin disease including eczema and sensitization, Eye disease, Kidney disease

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Range %
2,5,8,11-Tetraoxatridecan-13-ol, mixed esters with boric acid	176022-80-3	30 - 60
Ethanol, 2-(2-(2-ethoxyethoxy)ethoxy)-	112-50-5	10 - 30
Ethanol, 2-(2-(2-methoxyethoxy)ethoxy)-	112-35-6	10 - 30
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	7 - 13
Tetraethylene glycol	112-60-7	3 - 7
Diethylene glycol	111-46-6	1 - 5

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.
Eye Contact: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids

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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

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 Cleanup: 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: 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: Store in a cool dry place. Isolate from incompatible materials. Do not store in direct sunlight.

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/Face 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

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Skin Protection: material. Do not wear contact lenses. Have an eye wash station available.
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
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IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Colorless to pale amber
Odour:	Mild
pH:	8.6
Solubility:	Complete; 100%
Water/Oil 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
Bulk Density:	8.94 Lbs/Gallon

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 Decomposition Products:	Carbon dioxide, Carbon monoxide

XI. TOXICOLOGICAL INFORMATION

Routes of Entry:	Absorption, Eye contact, Inhalation, Ingestion
Ingestion:	No hazard in normal industrial use.
Inhalation:	No hazard in normal industrial use.
Absorption:	No absorption hazard in normal industrial use.
Eye:	Upon prolonged or repeated contact, can 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.
Skin:	Unlikely to cause irritation even on repeated contact.

Chemical Name	LD50 and LC50
Ethanol, 2-(2-(2-ethoxyethoxy)ethoxy)-	Oral LD50 Rat 7750 mg/kg; Dermal LD50 Rabbit 3540 mg/kg
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	Oral LD50 Rat 5300 mg/kg (Source: IUCLID); Dermal LD50 Rabbit 3480 mg/kg (Source: IUCLID)
Tetraethylene glycol	Dermal LD50 Rabbit >20 g/kg (Source: NLM_CIP)
Diethylene glycol	Dermal LD50 Rabbit 11890 mg/kg (Source: NLM_CIP); Oral LD50 Rat 12565 mg/kg (Source: IUCLID)

Target Organs:	Skin, Eyes, Kidneys
Carcinogenicity:	Not a carcinogen according to NTP, IARC, or OSHA.
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% is

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Reproductive Toxicity: mutagenic or genotoxic.
 Not known or reported to cause reproductive or developmental toxicity.

Skin Sensitization: No data available to indicate product or components may be a skin sensitizer.

Chemical Listed as Carcinogen or Potential Carcinogen	Source Agency
Not applicable	ACGIH- Threshold Limit Values- Carcinogens
Not applicable	IARC Carcinogen
Not applicable	NTP- Report on Known Human Carcinogens
Not applicable	NTP- Report on Reasonably Anticipated to be Human Carcinogens
Not applicable	U.S. - OSHA - Hazard Communication Carcinogens

XII. ECOLOGICAL INFORMATION

Overview: This material is not expected to be harmful to the ecology.

Mobility: This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

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.

XIII. DISPOSAL CONSIDERATIONS

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

XIV. TRANSPORTATION INFORMATION

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

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CAS #	% Range
None.	CERCLA RQ		
None.	SARA 313		
None.	SARA 302-EHS		
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

Inventory- U.S. TSCA: All components of this material are on the US TSCA Inventory or are exempt.

OSHA Hazard Classification: Eye irritant, Nephrotoxin - may cause kidney damage.

WHMIS Classification: D2B

Inventory- Canada Domestic Substance List: Present

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<u>HMIS Ratings:</u>		<u>NFPA Ratings:</u>	
Health:	2	Health:	2
Fire:	1	Fire:	1
Reactivity:	0	Reactivity:	0
PPE:	B		

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

XVI. ADDITIONAL INFORMATION

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Prepared by: TPRUETT
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.