



Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: O'REILLY DOT 3 BRAKE FLUID
Product Code: OR20BFPL
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: Inhalation, Ingestion, Skin contact, Eye contact
Target Organs: Liver, Kidneys, Respiratory Tract, Blood
Chemical Interactions: None known.
Conditions Aggravated by Exposure: Liver disease, Kidney disease, Respiratory disease including asthma and bronchitis

Acute Health Effects:

Inhalation Irritation: Mist may cause irritation of upper respiratory tract (nose and throat).
Skin Contact: No hazard in normal industrial use.
Skin Absorption: No absorption hazard in normal industrial use.
Eye Contact: Can cause minor irritation, tearing and reddening.
Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

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.

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

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III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #	OSHA Exposure Limits
Ethanol, 2-(2-(2-ethoxyethoxy)ethoxy)-	15 - 40	112-50-5	
Polyethylene glycol methyl ether	5 - 50	9004-74-4	
Ethanol, 2-(2-(2-methoxyethoxy)ethoxy)-	1 - 30	112-35-6	
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	1 - 30	143-22-6	
Tetraethylene glycol	1 - 25	112-60-7	
Polyethylenglykolmonobutylether	1 - 20	9004-77-7	
Triethylene glycol	1 - 20	112-27-6	
Polyethylene glycol	5	25322-68-3	
3,6,9,12-tetraoxatetradecan-1-ol	5	5650-20-4	
Hexaethylene glycol	5	2615-15-8	
Diethylene glycol	5	111-46-6	
Ethanol, 2-(2-butoxyethoxy)-	10	112-34-5	
Pentaethylene glycol	30	4792-15-8	
Trisodium phosphate	5	7601-54-9	
Sodium dihydrogen phosphate	5	7558-80-7	
Phosphoric acid, monopotassium salt	5	7778-77-0	

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

IV. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
Eyes:	Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.
Skin Contact:	Wash with soap and water.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this SDS.
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:	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 monoxide, Carbon dioxide, Nitrogen containing gases

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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: Mildly irritating material. Avoid unnecessary exposure.

Storage Conditions: Store in a cool dry place. Isolate from incompatible materials.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

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 safety glasses when handling this product if there is a likelihood of contact with eyes.

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. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

Gloves: Butyl rubber, Natural latex,, Polyvinyl chloride

Chemical Name	Occupational Exposure Limits	Value
Diethylene glycol monobutyl ether	ACGIH TLV-TWA	10 ppm TWA (inhalable fraction and vapor)

X. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Colorless to pale yellow

Odor: Strong

pH: 8.6

Viscosity (cSt at 40°C): 990

Solubility in Water: Complete; 100%

Octanol/Water Partition Coefficient: Not determined

Evaporation Rate: Not determined

Vapor Density: 6

Vapor Pressure: Not determined

Boiling Point (°C): 260

Freezing Point (°C): Not determined

Specific Gravity: 1.04

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Density: 8.71
Flash Point (°C): 138
Flash Point Method: ASTM D 93
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. Dried product residue (can act as an oxidizer). Impact or high temperatures can cause decomposition
Materials to Avoid: Strong acids, Strong oxidizing agents
Hazardous Decomp. Products: Aldehydes
Hazardous Polymerization: Hazardous polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion: Although this product has a low order of acute oral toxicity, aspiration of minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.
Inhalation: At room temperature, exposure to vapor is minimal due to low volatility.
Absorption: No absorption hazard in normal industrial use.
Eyes: This material is likely to be severely irritating to eyes based on animal data.
Skin: This material is likely to be moderately 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-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)
Triethylene glycol	112-27-6	Dermal LD50 Rabbit >20 mL/kg (Source: NLM_CIP); Oral LD50 Rat 15000 mg/kg (Source: IUCLID)
Polyethylene glycol	25322-68-3	Dermal LD50 Rabbit >20 mL/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)
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	Dermal LD50 Rabbit 2700 mg/kg (Source: NLM_CIP); Oral LD50 Rat 3384 mg/kg (Source: IUCLID)
Trisodium phosphate	7601-54-9	Oral LD50 Rat >2000 mg/kg (Source: IUCLID); Inhalation LC50 Rat >2.16 mg/L 1 h (Source: IUCLID); Dermal LD50 Rabbit >2 mg/kg (Source: IUCLID)
Sodium dihydrogen phosphate (1:2:1)	7558-80-7	Oral LD50 Rat 8290 mg/kg (Source: IUCLID); Dermal LD50 Rabbit >7940 mg/kg (Source: IUCLID)
Phosphoric acid, monopotassium salt O'REILLY DOT 3 BRAKE FLUID	7778-77-0	Oral LD50 Mouse 1700 mg/kg (Source: IUCLID)

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IUCLID)

XII. ECOLOGICAL INFORMATION

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	This material is expected to have only slight 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:	Does not biodegrade readily.

Toxicity to Aquatic Invertebrates:	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
Triethylene glycol	112-27-6	48 Hr EC50 Daphnia magna: 42426 mg/L
Diethylene glycol	111-46-6	48 Hr EC50 Daphnia magna: 84000 mg/L
Diethylene glycol monobutyl ether	112-34-5	24 Hr EC50 Daphnia magna: 2850 mg/L; 48 Hr EC50 Daphnia magna: >100 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
Diethylene glycol monobutyl ether	112-34-5	96 Hr EC50 Desmodesmus subspicatus: >100 mg/L

Toxicity to Fish:	CAS #	Results
Triethylene glycol monomethyl 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 monobutyl ether	143-22-6	96 Hr LC50 Leuciscus idus: 2200 - 4600 mg/L [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]
Triethylene glycol	112-27-6	96 Hr LC50 Pimephales promelas: 56200 - 63700 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 10000 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 61000 mg/L [flow-through]
Polyethylene glycol	25322-68-3	24 Hr LC50 Carassius auratus: >5000 mg/L (PEG 200, 400, 800)
Diethylene glycol	111-46-6	96 Hr LC50 Pimephales promelas: 75200 mg/L [flow-through]
Diethylene glycol monobutyl ether	112-34-5	96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static]

XIII. DISPOSAL CONSIDERATIONS

Disposal of Packaging:	Recycle containers whenever possible.
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).
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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
Trisodium phosphate	CERCLA RQ	7601-54-9	
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		
Triethylene glycol	Canadian WHMIS List	112-27-6	1 - 20
Diethylene glycol	Canadian WHMIS List	111-46-6	5
Diethylene glycol monobutyl ether	Canadian WHMIS List	112-34-5	10
Trisodium phosphate	Canadian WHMIS List	7601-54-9	5
Monosodium phosphate	Canadian WHMIS List	7558-80-7	5
Potassium phosphate monobasic	Canadian WHMIS List	7778-77-0	5
Phosphoric acid, trisodium salt	Massachusetts RTK List	7601-54-9	5
Sodium phosphate, tribasic	New Jersey RTK List	7601-54-9	5
Ethanol, 2,2'-[1,2-ethanediylbis(oxy)]bis-	Pennsylvania RTK List	112-27-6	1 - 20
Ethanol, 2,2'-oxybis-	Pennsylvania RTK List	111-46-6	5
Phosphoric acid, trisodium salt	Pennsylvania RTK List	7601-54-9	5
Polyethylene glycols	Minnesota Hazardous Substance List	25322-68-3	5
Diethylene glycol	Minnesota Hazardous Substance List	111-46-6	5
Trisodium phosphate	Minnesota Hazardous Substance List	7601-54-9	5

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.

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XVI. ADDITIONAL INFORMATION

Revision Date: 7/3/2013

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.