

The Valvoline Company

Date Prepared: 01/14/02

MSDS No: 503.0197992-005.009I

PYROIL DOT 3 BRAKE FLUID 12/12 OZ

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: PYROIL DOT 3 BRAKE FLUID 12/12 OZ

General or Generic ID: GLYCOL SOLUTION

Company

The Valvoline Company
P.O. Box 14000
Lexington, KY 40512

Telephone Numbers

Emergency: 1-800-274-5263
Information: 1-859-357-7206

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
GLYCOL ETHER	112-50-5	46.0- 85.0
OXIDIZED POLYETHYLENE	68441-17-8	10.0- 20.0
POLYETHYLENE GLYCOL 350 MONOMETHYL ETHER	9004-74-4	4.0- 14.0
POLYETHYLENE GLYCOL MONOBUTYL ETHER	9004-77-7	1.8- 12.0
POLYETHYLENE GLYCOL MONOETHYL ETHER	27879-07-8	1.6- 12.0
GLYCOL	112-27-6	1.0- 11.0
UNKNOWN MATERIAL		1.0- 7.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause severe eye irritation and injure eye tissue.

Skin

May cause mild skin irritation. Passage of this material through the skin may be harmful.

Swallowing

Swallowing this material may be harmful.

Inhalation

Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing high concentrations of aerosols may result in delayed lung damage.

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: skin rash, stomach or intestinal upset (nausea, vomiting, diarrhea), kidney damage, liver damage, lung damage.

Target Organ Effects

kidney damage.

Developmental Information

This material (or a component) may be harmful to the human fetus based on positive test results with laboratory animals.

Cancer Information
No data

Other Health Effects
No data

Primary Route(s) of Entry
Skin contact.

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

First aid is not normally required. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention.

Note to Physicians

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin.

5. FIRE FIGHTING MEASURES

Flash Point

280.0 F (137.7 C) PMCC

Explosive Limit

Not applicable

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, nitrogen oxides.

Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing Media

carbon dioxide, dry chemical.

Fire Fighting Instructions

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 2, Flammability - 1, Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in closed containers in a dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Wear safety glasses in compliance with OSHA regulations. (Consult your safety representative.)

Skin Protection

Wear resistant gloves such as: polyvinyl chloride, Wear normal work clothing covering arms and legs.

Respiratory Protections

Not required under normal conditions of use.

Engineering Controls

Not required under normal conditions of use. However, if unusual

operating conditions exist, then provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/TLV (s).

Exposure Guidelines

Component

GLYCOL ETHER (112-50-5)

No exposure limits established

OXIDIZED POLYETHYLENE (68441-17-8)

No exposure limits established

POLYETHYLENE GLYCOL 350 MONOMETHYL ETHER (9004-74-4)

No exposure limits established

POLYETHYLENE GLYCOL MONOBUTYL ETHER (9004-77-7)

No exposure limits established

POLYETHYLENE GLYCOL MONOETHYL ETHER (27879-07-8)

No exposure limits established

GLYCOL (112-27-6)

No exposure limits established

UNKNOWN MATERIAL

No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for product) 499.3 F (259.6 C) @ 760.00 mmHg

Vapor Pressure

(for product) < .010 mmHg @ 68.00 F

Specific Vapor Density

6.000 @ AIR=1

Specific Gravity

1.039 @ 68.00 F

Liquid Density

No data

Percent Volatiles (Including Water)

2.8 %

Evaporation Rate

< .01 (BUTYL ACETATE =1)

Appearance

TRANSPARENT YELLOW

State

LIQUID

Physical Form

HOMOGENEOUS SOLUTION

Color
TRANSPARENT YELLOW

Odor
MILD ETHEREAL

pH
7.0 - 11.5

Solubility in Water
100% WITH HAZE @ 20.0 C

10. STABILITY AND REACTIVITY

Hazardous Polymerization
Product will not undergo hazardous polymerization.

Hazardous Decomposition
May form: carbon dioxide and carbon monoxide.

Chemical Stability
Stable.

Incompatibility
Avoid contact with: strong acids, strong alkalies, strong bases,
strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information
Destroy by liquid incineration. Dispose of in accordance with all
applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:
Not Regulated

Container/Mode:
CASES/SURFACE - NO EXCEPTIONS

NOS Component:
None

RQ (Reportable Quantity) - 49 CFR 172.101
Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status
TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4
None

SARA 302 Components - 40 CFR 355 Appendix A
None

Section 311/312 Hazard Class - 40 CFR 370.2
Immediate(X) Delayed(X) Fire() Reactive() Sudden
Release of Pressure()

SARA 313 Components - 40 CFR 372.65
None

International Regulations

Inventory Status
DSL (CANADA) The intentional ingredients of this product are listed.
EINECS (EUROPE) The intentional ingredients of this product are listed.

State and Local Regulations

California Proposition 65
None

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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