

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 04/23/2013 : Version:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixtures

Trade name : PETRA DOT 3 BRAKE FLUID 12/32oz

Product code : PETRA6332

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Follow Label Directions

1.3. Details of the supplier of the safety data sheet

Petra Oil Company

6100 West by Northwest Blvd. Ste. 190

Houston, TX 77040

1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Eye Dam. 1 H318 Repr. 2 H361 STOT RE 2 H373

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS05

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H318 - Causes serious eye damage

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308+P313 - IF exposed or concerned: Get medical advice/attention

P310 - Immediately call a POISON CENTER/doctor/...
P314 - Get medical advice and attention if you feel unwell

P405 - Store locked up

P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification (GHS-US)
triethylene glycol monomethyl ether	(CAS No) 112-35-6	5 - 50	Not classified
triethyleneglycol monoethyl ether	(CAS No) 112-50-5	5 - 50	Not classified
triethylene glycol monobutyl ether	(CAS No) 143-22-6	5 - 50	Eye Dam. 1, H318
3,6,9,12-tetraoxahexadecane-1-ol	(CAS No) 1559-34-8	5 - 20	Not classified
polyethylene glycol 200-600	(CAS No) 25322-68-3	5 - 20	Not classified
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5	5 - 20	Eye Irrit. 2A, H319

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Name	Product identifier	%	Classification (GHS-US)
tetraethylene glycol monomethyl ether	(CAS No) 23783-42-8	5 - 20	Not classified
oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	(CAS No) 9038-95-3	5 - 20	Not classified
POLYALKYLENE GLYCOL MONOBUTYL ETHER	(CAS No) 9004-77-7	5 - 20	Not classified
diethylene glycol	(CAS No) 111-46-6	5 - 15	STOT RE 2, H373
diethylene glycol monomethyl ether	(CAS No) 111-77-3	< 5	Flam. Liq. 4, H227 Repr. 2, H361
diethyleneglycolmonoethyl ether	(CAS No) 111-90-0	< 5	Eye Irrit. 2A, H319
TRADE SECRET INHIBITOR PACKAGE	(CAS No) TRADE SECRET	< 3	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical

advice/attention.

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Suspected of damaging fertility or the unborn child. Causes damage to organs.

Symptoms/injuries after eye contact : Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have

been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures : Wash ... thoroughly after handling.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products : Strong bases. strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Colorless to pale yellow liquid.

Color : colorless. light yellow.

Odor : mild.

Odor threshold : No data available

pH : 7 - 11.5

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : 232.22 - 273.889 ℃

Flash point : $> 135 \, ^{\circ}$ C

Self ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure < 0.01 mm Hg Relative vapor density at 20 ℃ No data available Relative density : 1.025 - 1.075 Solubility : Soluble in water. Log Pow : No data available Log Kow : No data available

Viscosity, kinematic : 2 cSt

Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

None. Direct sunlight. Extremely high or low temperatures.

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Incompatible materials

strong acids. Strong bases.

Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	Not classified	
triethylene glycol monomethyl ether (112-35-6)		
LD50 oral rat	11865 mg/kg (Rat)	
LD50 dermal rabbit	7455 mg/kg (Rabbit)	
triethyleneglycol monoethyl ether (112-50-5)		
LD50 oral rat	7750 mg/kg (Rat)	
LD50 dermal rabbit	8168 mg/kg (Rabbit)	
triethylene glycol monobutyl ether (143-22-6)		
LD50 oral rat	> 5000 mg/kg (Rat)	
LD50 dermal rabbit	3480 mg/kg (Rabbit)	
3,6,9,12-tetraoxahexadecane-1-ol (1559-34-8)		
LD50 oral rat	> 5000 mg/kg (Rat)	
LD50 dermal rat	> 4000 mg/kg (Rat)	
polyethylene glycol 200-600 (25322-68-3)		
LD50 oral rat	> 15000 mg/kg (Rat)	
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)	
2-(2-butoxyethoxy)ethanol (112-34-5)		
LD50 oral rat	5660 mg/kg (Rat)	
LD50 dermal rabbit	2700 mg/kg (Rabbit)	
diethylene glycol (111-46-6)		
LD50 oral rat	12565 mg/kg (Rat)	
LD50 dermal rabbit	11890 mg/kg (Rabbit)	
diethylene glycol monomethyl ether (111-77-3)		
LD50 oral rat	4140 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	> 20 mg/l/4h (Rat)	
diethyleneglycolmonoethyl ether (111-90-0)		
LD50 oral rat	5445 mg/kg (Rat)	
LD50 dermal rat	5940 mg/kg (Rat)	
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h (Rat)	
tetraethylene glycol monomethyl ether (23783-42-8)		
LD50 oral rat	> 15000 mg/kg (Rat)	

oxirane, 2-methyl-, polymer with oxirane, monobutyl ether (9038-95-3)

LD50 oral rat	> 2000 mg/kg body weight (Rat)
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit)

Skin corrosion/irritation : Not classified pH: 7 - 11.5

Serious eye damage/irritation : Causes serious eye damage.

pH: 7 - 11.5

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classifiedBased on available data, the classification criteria are not met

Carcinogenicity : Not classified

POLYALKYLENE GLYCOL MONOBUTYL ETH	ER (9004-77-7)
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: Suspected of damaging fertility or the unborn child. Based on available data, the classification Reproductive toxicity

criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

May cause damage to organs through prolonged or repeated exposure. Based on available data,

the classification criteria are not met

Aspiration hazard : Not classifiedBased on available data, the classification criteria are not met

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after eye contact : Causes serious eye damage.

SECTION 12: Ecological information

12.1. **Toxicity**

triethylene glycol monomethyl ether (112-35-6)		
LC50 fish 1	> 5000 mg/l (96 h; Brachydanio rerio; MEASURED CONCENTRATION)	
EC50 other aquatic organisms 1	> 5000 mg/l (16 h; Activated sludge; CELL NUMBERS)	
LC50 fish 2	> 10000 mg/l (96 h; Pimephales promelas)	
TLM fish 1	> 1000 ppm (96 h; Pisces)	
TLM other aquatic organisms 1	> 1000 ppm (96 h)	
Threshold limit algae 1	> 500 mg/l (72 h; Scenedesmus subspicatus)	

triethyleneglycol monoethyl ether (112-50-5)	
LC50 fish 1	> 10000 mg/l (96 h; Pimephales promelas)
LC50 fish 2	> 5000 mg/l (24 h; Pisces)

triethylene glycol monobutyl ether (143-22-6)	
LC50 fish 1	2400 mg/l (96 h; Pimephales promelas; Static system)
EC50 Daphnia 1	3200 mg/l (24 h; Daphnia magna)
LC50 fish 2	2200 mg/l (96 h; Leuciscus idus)
EC50 Daphnia 2	> 500 mg/l (48 h; Daphnia magna)

3,6,9,12-tetraoxahexadecane-1-ol (1559-34-8)	
LC50 fish 1	> 1409 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (48 h; Daphnia magna)

polyethylene glycol 200-600 (25322-68-3)	
LC50 fish 1	> 1000 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
LC50 fish 2	> 5000 mg/l (24 h; Carassius auratus)
Threshold limit other aquatic organisms 1	<= 100 mg/l (96 h; Plankton)
Threshold limit other aquatic organisms 2	> 1000 mg/l
Threshold limit algae 2	500 mg/l (720 h; Algae; NO EFFECT)

2-(2-butoxyethoxy)ethanol (112-34-5)	
LC50 fish 1	1300 mg/l (96 h; Lepomis macrochirus)
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)
EC50 Daphnia 1	2850 mg/l (24 h; Daphnia magna; GLP)
EC50 other aquatic organisms 1	53 mg/l (192 h; Algae; GROWTH)
LC50 fish 2	1805 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 2	> 100 mg/l (48 h; Daphnia magna)
TLM fish 1	10 - 100,96 h; Pisces
TLM other aquatic organisms 1	10 - 100,96 h
Threshold limit other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	53 mg/l (192 h; Microcystis aeruginosa)
Threshold limit algae 2	>= 100 mg/l (96 h; Scenedesmus subspicatus)

diethylene glycol (111-46-6)	
LC50 fish 1	> 5000 ppm (24 h; Carassius auratus)
LC50 other aquatic organisms 1	1174 mg/l (Xenopus laevis)
EC50 Daphnia 1	> 10000 mg/l (24 h; Daphnia magna)
LC50 fish 2	61072 ppm (168 h; Poecilia reticulata)
TLM fish 1	> 32000 mg/l (96 h; Gambusia affinis)
TLM other aquatic organisms 1	> 1000 ppm (96 h)
Threshold limit other aquatic organisms 1	1174 mg/l (72 h; Xenopus laevis; TOXICITY TEST)

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diethylene glycol (111-46-6)	
Threshold limit other aquatic organisms 2	10745 mg/l (16 h; Protozoa; TOXICITY TEST)
Threshold limit algae 1	2700 mg/l (168 h; Scenedesmus quadricauda)
Threshold limit algae 2	100 mg/l (Selenastrum capricornutum)
diethylene glycol monomethyl ether (111-77-	2)
LC50 fish 1 EC50 Daphnia 1	1000 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Static system) > 500 mg/l (48 h; Daphnia magna)
LC50 bapitila 1	7500 ppm (96 h; Lepomis macrochirus)
Threshold limit algae 1	> 500 mg/l (72 h; Scenedesmus subspicatus)
Threshold little algae 1	> 500 mg/l (72 m, Scenedesimas subspicatus)
diethyleneglycolmonoethyl ether (111-90-0)	
LC50 fish 1	12900 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Flow-through system)
EC50 Daphnia 1	3940 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	10661 mg/l (Echinoidea; GROWTH)
LC50 fish 2	9650 mg/l (96 h; Pimephales promelas; Flow-through system)
tetraethylene glycol monomethyl ether (2378	3-42-8)
LC50 fish 1	> 10000 mg/l (96 h; Brachydanio rerio)
Threshold limit other aquatic organisms 1	> 12500 mg/l (3 h; Activated sludge)
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oxirane, 2-methyl-, polymer with oxirane, mo	
LC50 fish 1	> 10000 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1	> 10000 mg/l (96 h)
Threshold limit other aquatic organisms 1	> 10000 mg/l (96 h)
12.2. Persistence and degradability	
PETRA DOT 3 BRAKE FLUID 12/32oz	
Persistence and degradability	Not established.
triethylene glycol monomethyl ether (112-35-	
Persistence and degradability	Inherently biodegradable. Non degradable in the soil. Photodegradation in the air.
triethyleneglycol monoethyl ether (112-50-5)	
Persistence and degradability	Readily biodegradable in water.
triethylene glycol monobutyl ether (143-22-6)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.02 g O²/g substance
Chemical oxygen demand (COD)	1.83 g O²/g substance
3,6,9,12-tetraoxahexadecane-1-ol (1559-34-8)	
Persistence and degradability	Not readily biodegradable in water. Inherently biodegradable.
ThOD	2.05 g O²/g substance
polyethylene glycol 200-600 (25322-68-3)	
Persistence and degradability	Biodegradability in water: no data available.
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2-(2-butoxyethoxy)ethanol (112-34-5)	Deadily hisdomodella is water Disdomodella in the coll Distort and addition in the
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.25 g O²/g substance
Chemical oxygen demand (COD)	2.08 g O²/g substance
ThOD	2.173 g O²/g substance
BOD (% of ThOD)	11 % ThOD
diethylene glycol (111-46-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.02 g O²/g substance
Chemical oxygen demand (COD)	1.51 g O²/g substance
ThOD	1.51 g O ² /g substance
BOD (% of ThOD)	0.015 % ThOD
diethylene glycol manamathyl other (114, 77)	3)
diethylene glycol monomethyl ether (111-77- Persistence and degradability	Readily biodegradable in water. Photolysis in the air. Photodegradation in the air.
Chemical oxygen demand (COD)	1.71 g O²/g substance
ThOD	• •
	1.73 g O ² /g substance

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diethyleneglycolmonoethyl ether (111-90-0)		
Persistence and degradability	Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.20 g O ² /g substance	
Chemical oxygen demand (COD)	1.85 g O ² /g substance	
ThOD	1.9078849 g O²/g substance	
BOD (% of ThOD)	0.11 % ThOD	
tetraethylene glycol monomethyl ether (23783	-42-8\	
Persistence and degradability	Inherently biodegradable. Photolysis in the air.	
,		
oxirane, 2-methyl-, polymer with oxirane, mon		
Persistence and degradability	Not readily biodegradable in water.	
TRADE SECRET INHIBITOR PACKAGE (TRAD	E SECRET)	
Persistence and degradability Not established.		
POLYALKYLENE GLYCOL MONOBUTYL ETHER (9004-77-7)		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
•		
PETRA DOT 3 BRAKE FLUID 12/32oz Bioaccumulative potential	Not established.	
·		
triethylene glycol monomethyl ether (112-35-6		
Log Pow	-1.13	
Bioaccumulative potential	Bioaccumulation: not applicable.	
triethyleneglycol monoethyl ether (112-50-5)		
Bioaccumulative potential	Not bioaccumulative.	
triethylene glycol monobutyl ether (143-22-6)		
Log Pow	0.51 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
2 6 0 12 totracyahayadasana 1 al (1550 24 9)		
3,6,9,12-tetraoxahexadecane-1-ol (1559-34-8)	A 26 (Calculated)	
Log Pow	-0.26 (Calculated) Bioaccumulation: not applicable	
Log Pow Bioaccumulative potential	-0.26 (Calculated) Bioaccumulation: not applicable.	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3)	Bioaccumulation: not applicable.	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow	Bioaccumulation: not applicable. -1.2	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3)	Bioaccumulation: not applicable.	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential 2-(2-butoxyethoxy)ethanol (112-34-5)	Bioaccumulation: not applicable. -1.2	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential	Bioaccumulation: not applicable. -1.2	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential 2-(2-butoxyethoxy)ethanol (112-34-5) BCF fish 1 Log Pow	Bioaccumulation: not applicable. -1.2 Bioaccumulation: not applicable. 0.46 (QSAR) 0.56 (Experimental value)	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential 2-(2-butoxyethoxy)ethanol (112-34-5) BCF fish 1	Bioaccumulation: not applicable. -1.2 Bioaccumulation: not applicable. 0.46 (QSAR)	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential 2-(2-butoxyethoxy)ethanol (112-34-5) BCF fish 1 Log Pow	Bioaccumulation: not applicable. -1.2 Bioaccumulation: not applicable. 0.46 (QSAR) 0.56 (Experimental value)	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential 2-(2-butoxyethoxy)ethanol (112-34-5) BCF fish 1 Log Pow Bioaccumulative potential	Bioaccumulation: not applicable. -1.2 Bioaccumulation: not applicable. 0.46 (QSAR) 0.56 (Experimental value)	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential 2-(2-butoxyethoxy)ethanol (112-34-5) BCF fish 1 Log Pow Bioaccumulative potential diethylene glycol (111-46-6)	Bioaccumulation: not applicable. -1.2 Bioaccumulation: not applicable. 0.46 (QSAR) 0.56 (Experimental value) Low potential for bioaccumulation (Log Kow < 4).	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential 2-(2-butoxyethoxy)ethanol (112-34-5) BCF fish 1 Log Pow Bioaccumulative potential diethylene glycol (111-46-6) Log Pow Bioaccumulative potential	Bioaccumulation: not applicable. -1.2 Bioaccumulation: not applicable. 0.46 (QSAR) 0.56 (Experimental value) Low potential for bioaccumulation (Log Kow < 4). -1.98 Bioaccumulation: not applicable.	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential 2-(2-butoxyethoxy)ethanol (112-34-5) BCF fish 1 Log Pow Bioaccumulative potential diethylene glycol (111-46-6) Log Pow Bioaccumulative potential diethylene glycol monomethyl ether (111-77-3	Bioaccumulation: not applicable. -1.2 Bioaccumulation: not applicable. 0.46 (QSAR) 0.56 (Experimental value) Low potential for bioaccumulation (Log Kow < 4). -1.98 Bioaccumulation: not applicable.	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential 2-(2-butoxyethoxy)ethanol (112-34-5) BCF fish 1 Log Pow Bioaccumulative potential diethylene glycol (111-46-6) Log Pow Bioaccumulative potential	Bioaccumulation: not applicable. -1.2 Bioaccumulation: not applicable. 0.46 (QSAR) 0.56 (Experimental value) Low potential for bioaccumulation (Log Kow < 4). -1.98 Bioaccumulation: not applicable.	
Log Pow Bioaccumulative potential polyethylene glycol 200-600 (25322-68-3) Log Pow Bioaccumulative potential 2-(2-butoxyethoxy)ethanol (112-34-5) BCF fish 1 Log Pow Bioaccumulative potential diethylene glycol (111-46-6) Log Pow Bioaccumulative potential diethylene glycol monomethyl ether (111-77-3) Log Pow Bioaccumulative potential	Bioaccumulation: not applicable. -1.2 Bioaccumulation: not applicable. 0.46 (QSAR) 0.56 (Experimental value) Low potential for bioaccumulation (Log Kow < 4). -1.98 Bioaccumulation: not applicable.	
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POLYALKYLENE GLYCOL MONOBUTYL ETHER (9004-77-7)		
	Bioaccumulative potential	Not established.

12.4. Mobility in soil

triethylene glycol monomethyl ether (112-35-6)		
	Surface tension	0.0314 N/m

2-(2-butoxyethoxy)ethanol (112-34-5)

Surface tension 0.034 N/m (25 ℃)

diethylene glycol (111-46-6)

Surface tension 0.0485 N/m

diethylene glycol monomethyl ether (111-77-3)

Surface tension 0.035 N/m (25 ℃)

diethyleneglycolmonoethyl ether (111-90-0)

Surface tension 0.032 N/m (25 $^{\circ}$ C)

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to ...

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

US DOT (ground): NOT REGULATED, ICAO/IATA (air): NOT REGULATED, IMO/IMDG (water): NOT REGULATED,

14.2. UN proper shipping name

DOT Proper Shipping Name : NOT REGULATED

14.3. Additional information

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

PETRA DOT 3 BRAKE FLUID 12/32oz	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

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Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Indication of changes : Revision - See : *.

Other information : None.

Full text of H-phrases: see section 16:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Repr. 2	Reproductive toxicity Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H318	Causes serious eye damage
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated
	exposure

NFPA health hazard : 2 - Intense or continued exposure could cause temporary

incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

SDS US (GHS HazCom 2012) - Technical Chemical

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it 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 compilance with the above. The date of manufacture is stamped on the product

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