

Safety Data Sheet

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

Revision date: 09/04/2014 : Version:

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

1.1. Product identifier

Product form : Mixture

Trade name : PETRA LOW BOIL DOT 3 BRAKE FLUID 12 FL.OZ.

Product code : PETRA6312

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

Use of the substance/mixture : Brake Fluid

1.3. Details of the supplier of the safety data sheet

Petra Oil Company

6100 West by Northwest Blvd. Ste. 190

Ste 190

Houston, TX 77040 T 713-856-5700

1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Repr. 2 H361 STOT RE 2 H373

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS07



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H302 - Harmful if swallowed
H315 - Causes skin irritation

H318 - Causes serious eye damage

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs (kidneys, central nervous system) through prolonged or

repeated exposure (oral, Inhalation)

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

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

P260 - Do not breathe dust,fumes,gas,mist,vapor spray P264 - Wash affected areas thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P312 - If swallowed: Call a poison center, doctor if you feel unwell

P302+P352 - If on skin: Wash with plenty of soap and water

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, physician P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment: See section 4.1 on SDS

P330 - Rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash it before reuse

P405 - Store locked up

P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with

local, regional, national, international regulations.

2.3. Other hazards

Other hazards not contributing to the : None under normal conditions.

03/06/2015 EN (English US) 1/1

Safety Data Sheet

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

classification

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Triethylene Glycol Monobutyl Ether	(CAS No) 143-22-6	23 - 35	Eye Dam. 1, H318
Diethylene Glycol	(CAS No) 111-46-6	10 - 20	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Triethyleneglycol Monoethyl Ether	(CAS No) 112-50-5	8 - 20	Not classified
3,6,9,12-Tetraoxahexadecane-1-ol	(CAS No) 1559-34-8	9 - 14	Not classified
Triethylene Glycol Monomethyl Ether	(CAS No) 112-35-6	3 - 10	Not classified
Tetraethylene Glycol	(CAS No) 112-60-7	6 - 10	Not classified
2-(2-Butoxyethoxy) Ethanol	(CAS No) 112-34-5	1 - 8	Eye Irrit. 2A, H319
Pentaethylene Glycol Monobutyl Ether	(CAS No) 23601-39-0	2 - 5	Not classified
Methoxy Polyethylene Glycol 350	(CAS No) 9004-74-4	<= 4	Not classified
Diethyleneglycolmonoethyl Ether	(CAS No) 111-90-0	<= 2	Eye Irrit. 2A, H319

The exact percentage is a trade secret.

SECTION 4: First aid measures

4.1.	Description	of firet aid	moocuree
4.1.	Describtion	OF HIST AIC	measures

First-aid measures general

: Respiratory arrest: artificial respiration or oxygen. Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

: Wash with water and soap. Remove contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eve 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

Fatal if swallowed. Immediately consult a doctor/medical service. Victim is fully conscious: immediately induce vomiting. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

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 inhalation

: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/injuries after skin contact

: May cause moderate irritation. Causes skin irritation. Itching. Red skin. Skin rash/inflammation.

Symptoms/injuries after eye contact

: Causes serious eye damage. Inflammation/damage of the eye tissue. Irritation of the eye

tissue. Redness of the eye tissue.

Symptoms/injuries after ingestion

: Swallowing a small quantity of this material will result in serious health hazard.

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. Prevent fire-fighting water from entering 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

General measures : Remove ignition sources.

03/06/2015 EN (English US) 2/1

Safety Data Sheet

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

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses.

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

For containment : Dam up the liquid spill. Contain released substance, pump into suitable containers. Plug the

leak, cut off the supply.

Methods for cleaning up : Absorbed substance: shovel into drums. 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 . Do not handle until all safety precautions have been read

and understood. Avoid breathing dust,fume,gas,mist,vapor spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after

handling. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep cool. Store in a dry place. Keep only in the original container in a cool, well ventilated

place away from : Keep container closed when not in use.

Incompatible products : Oxidizing agent. Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-(2-Butoxyethoxy) Ethanol (112-34-5)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	10 ppm

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.

Personal protective equipment : Gloves. Safety glasses. Avoid all unnecessary exposure.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield. Chemical goggles or safety glasses.

Skin and body protection : Wear chemically resistant protective gloves. Protective clothing. Wear suitable protective

clothing.

Respiratory protection : Insufficient ventilation: wear respiratory protection. Wear gas mask if concentration in air >

exposure limit. 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 : Liquid.

03/06/2015 EN (English US) 3/1

Safety Data Sheet

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

Color : Amber. 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 : -50 °C

Boiling point : 232 °C

Flash point : 121 °C

Auto-ignition temperature : 310 °C

Decomposition temperature : No data available Flammability (solid, gas) : No data available : Not Determined Vapor pressure Relative vapor density at 20 °C : Not Determined : 1.03 - 1.07 Relative density Specific gravity / density : 8.33 - 9.02 lb/gal Solubility : Soluble in water. Log Pow : No data available Log Kow : No data available Viscosity, kinematic 1.5 cSt @ 100 deg C Viscosity, dynamic : No data available Explosive properties : No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidizing properties

Explosion limits

No additional information available

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Direct sunlight. Extremely high or low temperatures.

No data availableNo data available

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Triethylene Glycol Monobutyl Ether (143-22-6)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	3480 mg/kg (Rabbit)
Triethylene Glycol Monomethyl Ether (112-35-6)	
LD50 oral rat	11865 mg/kg (Rat)
LD50 dermal rabbit	7455 mg/kg (Rabbit)
Diethylene Glycol (111-46-6)	
LD50 dermal rabbit	11890 mg/kg (Rabbit)
3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-8)	
LD50 oral rat	> 5000 mg/kg (Rat)

03/06/2015 EN (English US) 4/1

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

3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-8)	
LD50 dermal rat	> 4000 mg/kg (Rat)
Tetraethylene Glycol (112-60-7)	
LD50 oral rat	29000 mg/kg (Rat)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)
Triethyleneglycol Monoethyl Ether (112-50-5)	
LD50 oral rat	7750 mg/kg (Rat)
LD50 dermal rabbit	8168 mg/kg (Rabbit)
2-(2-Butoxyethoxy) Ethanol (112-34-5)	
LD50 oral rat	5660 mg/kg (Rat)
LD50 dermal rabbit	2764 mg/kg (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
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)
Methoxy Polyethylene Glycol 350 (9004-74-4)	
LD50 oral rat	22000 mg/kg (Rat)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)
Skin corrosion/irritation	: Causes skin irritation.
	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 classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (kidneys, central nervous system) through prolonged or repeated exposure (oral, Inhalation).
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: May cause moderate irritation. Causes skin irritation. Itching. Red skin. Skin rash/inflammation.
Symptoms/injuries after eye contact	: Causes serious eye damage. Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data available.

Triethylene Glycol Monobutyl Ether (143-22-6)	
LC50 fish 1	2400 mg/l (96 h; Pimephales promelas)
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)
Threshold limit algae 1	> 500 mg/l (72 h; Scenedesmus subspicatus)
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)
Diethylene Glycol (111-46-6)	
LC50 fish 1	> 5000 ppm (24 h; Carassius auratus)

03/06/2015 EN (English US) 5/1

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

Diethylene Glycol (111-46-6)	
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)
EC50 Daphnia 2	> 10000 mg/l (24 h; Daphnia magna)
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)
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)
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)
Tetraethylene Glycol (112-60-7)	
LC50 fish 1	> 5000 mg/l (24 h; Carassius auratus)
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)
	V (),
2-(2-Butoxyethoxy) Ethanol (112-34-5) LC50 fish 1	1300 mg/l (06 h: Lonomic macrochirus)
	1300 mg/l (96 h; Lepomis macrochirus) 10 - 100 mg/l (96 h)
LC50 other aquatic organisms 1	
EC50 Daphnia 1 LC50 fish 2	2850 mg/l (24 h; Daphnia magna; GLP)
	1805 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 2 TLM fish 1	> 100 mg/l (48 h; Daphnia magna)
	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)
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)
Methoxy Polyethylene Glycol 350 (9004-74-4)	
LC50 fish 1	> 10000 mg/l (Pimephales promelas)
12.2. Persistence and degradability	
PETRA LOW BOIL DOT 3 BRAKE FLUID 12 FL	OZ.
Persistence and degradability	Not established.
Triethylene Glycol Monobutyl Ether (143-22-6)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance
Chemical oxygen demand (COD)	1.83 g O ₂ /g substance
Triethylene Glycol Monomethyl Ether (112-35-	6)
Persistence and degradability	Inherently biodegradable. Non degradable in the soil. Photodegradation in the air.
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 O ₂ /g substance
Chemical oxygen demand (COD)	1.51 g O ₂ /g substance
ThOD	1.51 g O ₂ /g substance
BOD (% of ThOD)	0.015 % ThOD
3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-8)	
Persistence and degradability	Not readily biodegradable in water. Inherently biodegradable.
ThOD	2.05 g O ₂ /g substance
Tetraethylene Glycol (112-60-7)	
Persistence and degradability	Readily biodegradable in water.

03/06/2015 EN (English US) 6/1

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

	,
Tetraethylene Glycol (112-60-7)	
Biochemical oxygen demand (BOD)	0.50 g O ₂ /g substance (10d)
ThOD	2.23 g O ₂ /g substance
BOD (% of ThOD)	0.286 % ThOD
Triethyleneglycol Monoethyl Ether (112-50-	5)
Persistence and degradability	Readily biodegradable in water.
2-(2-Butoxyethoxy) Ethanol (112-34-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the
To coloro and dog. addomy	substance available. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.25 g O ₂ /g substance
Chemical oxygen demand (COD)	2.08 g O ₂ /g substance
ThOD	2.173 g O ₂ /g substance
BOD (% of ThOD)	0.11 % ThOD
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 O ₂ /g substance
BOD (% of ThOD)	0.11 % ThOD
Methoxy Polyethylene Glycol 350 (9004-74-	
Persistence and degradability	Not readily biodegradable in water.
BOD (% of ThOD)	(28 day(s)) 0.1
Pentaethylene Glycol Monobutyl Ether (236	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
PETRA LOW BOIL DOT 3 BRAKE FLUID 12	
Bioaccumulative potential	Not established.
Triethylene Glycol Monobutyl Ether (143-22	2-6)
Log Pow	0.51 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Triethylene Glycol Monomethyl Ether (112-	35-6)
Log Pow	-1.13
Bioaccumulative potential	Bioaccumulation: not applicable.
Diethylene Glycol (111-46-6)	
BCF fish 1	100 (3 h; Leuciscus melatonus)
Log Pow	-1.98 (Calculated; Other)
Bioaccumulative potential	Bioaccumulation: not applicable.
'	
3,6,9,12-Tetraoxahexadecane-1-ol (1559-34	,
Log Pow	-0.26 (Calculated) Bioaccumulation: not applicable.
Bioaccumulative potential	Bloaccumulation. not applicable.
Tetraethylene Glycol (112-60-7)	
Log Pow	-2.181.38
Bioaccumulative potential	Bioaccumulation: not applicable.
Triethyleneglycol Monoethyl Ether (112-50-	5)
Bioaccumulative potential	Not bioaccumulative.
2-(2-Butoxyethoxy) Ethanol (112-34-5)	
BCF fish 1	0.46 (QSAR)
Log Pow	0.56 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Diethyleneglycolmonoethyl Ether (111-90-0	
Log Pow	-1.190.08
Bioaccumulative potential	Bioaccumulation: not applicable.
	19
Methoxy Polyethylene Glycol 350 (9004-74-	
Bioaccumulative potential	Not bioaccumulative.
Pentaethylene Glycol Monobutyl Ether (236	•
Bioaccumulative potential	Not established.

03/06/2015 EN (English US) 7/1

Safety Data Sheet

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

12.4. Mobility in soil

Triethylene Glycol Monomethyl Ether (112-35-6)	
Surface tension	0.0314 N/m
Diethylene Glycol (111-46-6)	
Surface tension	0.0485 N/m
Tetraethylene Glycol (112-60-7)	
Surface tension	0.019 N/m
2-(2-Butoxyethoxy) Ethanol (112-34-5)	
Surface tension	0.034 N/m (25 °C)
Diethyleneglycolmonoethyl Ether (111-90-0)	
Surface tension	0.032 N/m (25 °C)
Methoxy Polyethylene Glycol 350 (9004-74-4)	
Surface tension	0.04 N/m

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 appropriate waste disposal facility, in accordance with local, regional,

national, international regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): Not regulated, ICAO/IATA (air): Not regulated, IMO/IMDG (water): Not regulated,

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated

BRAKE FLUID, OTHER THAN PETROLEUM

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 LOW BOIL DOT 3 BRAKE FLUID 12 FL.OZ.	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not Lisited
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard

Triethylene Glycol Monobutyl Ether (143-22-6)

Subject to reporting requirements of United States SARA Section 313

Triethylene Glycol Monomethyl Ether (112-35-6)

Subject to reporting requirements of United States SARA Section 313

03/06/2015 EN (English US) 8/1

Safety Data Sheet

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

Triethyleneglycol Monoethyl Ether (112-50-5)	
Subject to reporting requirements of United States SARA Section 313	
2-(2-Butoxyethoxy) Ethanol (112-34-5)	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Reactive hazard

15.2. International regulations

CANADA

Triethylene Glycol Monomethyl Ether (112-35-6)			
Triethyleneglycol Monoethyl Ether (112-50-5)			
2-(2-Butoxyethoxy) Ethanol (112-34-5)			
Listed on the Canadian DSL (Domestic Sustances List)			
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects		

EU-Regulations

Triethylene Glycol Monomethyl Ether (112-35-6)		
Triethyleneglycol Monoethyl Ether (112-50-5)		
2-(2-Butoxyethoxy) Ethanol (112-34-5)		

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R41

Full text of R-phrases: see section 16

15.2.2. National regulations

PETRA LOW BOIL DOT 3 BRAKE FLUID 12 FL.OZ.

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian NDSL (Non-Domestic Substances List)

Triethylene Glycol Monomethyl Ether (112-35-6)

Triethyleneglycol Monoethyl Ether (112-50-5)

2-(2-Butoxyethoxy) Ethanol (112-34-5)

15.3. US State regulations

15.5. US State regulations	15.3. US State regulations					
PETRA LOW BOIL DOT 3	BRAKE FLUID 12 FL.OZ.					
U.S California - Proposition 65 - Carcinogens List		No				
U.S California - Proposition 65 - Developmental Toxicity		No				
U.S California - Proposition 65 - Reproductive Toxicity - Female		No				
U.S California - Proposition 65 - Reproductive Toxicity - Male		No				
Triethylene Glycol Monobi	utyl Ether (143-22-6)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)		
No	No	No	No			
Triethylene Glycol Monomethyl Ether (112-35-6)						
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)		
No	No	No	No			
	1	1	l	1		

03/06/2015 EN (English US) 9/1

Safety Data Sheet

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

• •	, ,,,	, ,		
Diethylene Glycol (111	-46-6)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRĽ)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	, ,
		Female	Male	
No	No	No	No	
3 6 0 12-Totraovahova	decane-1-ol (1559-34-8)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(1.10.12)
Carolinogono Llot	Developmental Textony	Female	Male	
No	No	No	No	
Tetraethylene Glycol (1	112-60-7)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
Ü		Female	Male	
No	No	No	No	
Triethyleneglycol Mone	oethyl Ether (112-50-5)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRĽ)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
-		Female	Male	
No	No	No	No	
2-(2-Butoxyethoxy) Eth	nanol (112-34-5)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
•		Female	Male	
No	No	No	No	
Diethyleneglycolmono	ethyl Ether (111-90-0)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
3	,	Female	Male	
No	No	No	No	
		140	140	
	Glycol 350 (9004-74-4)	LLC California	110 0-14	No simplificate del 1
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
Pentaethylene Glycel	Monobutyl Ether (23601-39-0)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(NSINL)
Cardinogens List	Developmental Toxicity	Female	Male	
No	No	No	No	
Triethylene Glycal Mar	nobutyl Ether (143-22-6)		1	
State or local regulation	, , ,			
State of local regulation	nio -			

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. New Jersey Right to Know Hazardous Substance List

Triethylene Glycol Monomethyl Ether (112-35-6)

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. New Jersey Right to Know Hazardous Substance List

Triethyleneglycol Monoethyl Ether (112-50-5)

State or local regulations

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

03/06/2015 EN (English US) 10/1

Safety Data Sheet

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

Triethyleneglycol Monoethyl Ether (112-50-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

2-(2-Butoxyethoxy) Ethanol (112-34-5)

State or local regulations

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

74 O p	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
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

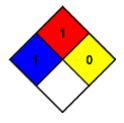
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment 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

Personal Protection : B

SDS US (GHS HazCom 2012) - TCC

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 compliance with the above. The date of manufacture is stamped on the product

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

03/06/2015 EN (English US) 11/1