# MAG1 DOT 3 BRAKE FLUID 5 GALLON

Safety Data Sheet

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

Revision date: 04/19/2017 Supersedes:10/19/2015 Version: 1.2

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

### 1.1. Product identifier

Product form : Mixture

Trade name : MAG1 DOT 3 BRAKE FLUID 5 GALLON

Product code : MAG00125

### 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

Warren Distribution, Inc.
950 S. 10th St., Suite 300
Omaha, NE 68102
T +01 (800) 825-1235 +01 (402) 341-9397
sds@wd-wpp.com

### 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

**GHS-US classification**

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

Full text of H statements : see section 16

### 2.2. Label elements

**GHS-US labeling**

Hazard pictograms (GHS-US) :

GHS05 GHS07 GHS08

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 through prolonged or repeated exposure

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+P364 - 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 classification : None under normal conditions.

### 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 | % | GHS-US classification |
|---|---|---|---|
| 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 |
| 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 | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373 |
| Diethylene Glycol Monomethyl Ether | (CAS No) 111-77-3 | < 5 | Flam. Liq. 4, H227<br>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 |

The exact percentage is a trade secret.

## 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 : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

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. 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 irritation or asthma-like symptoms.

Symptoms/injuries after skin contact : Itching. Skin rash/inflammation. Red skin. Causes skin irritation.

Symptoms/injuries after eye contact : Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue. Causes serious eye damage.

Symptoms/injuries after ingestion : May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways. 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.

#### 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 product, pump into suitable containers. Plug the leak, cut off the supply.

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 . Do not handle until all safety precautions have been read and understood. Avoid breathing dust,fume,gas,mist,vapor spray.

Hygiene measures : Wash contaminated clothing before reuse. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.

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

| 2-(2-Butoxyethoxy) Ethanol (112-34-5) | | |
|---|---|---|
| USA ACGIH | ACGIH TWA (ppm) | 10 ppm (Diethylene glycol monobutyl ether; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor) |

### 8.2. Exposure controls

Appropriate engineering controls : Local exhaust venilation, vent hoods . Ensure good ventilation of the work station.

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

Materials for protective clothing : GIVE EXCELLENT RESISTANCE:

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Environmental exposure controls : Avoid release to the environment.

Consumer exposure controls : Avoid contact during pregnancy/while nursing.

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. |
| Color | : | Colourless to light yellow. |
| Odor | : | Mild. |
| Odor threshold | : | No data available |
| pH | : | 7.5 - 11.5 |
| Relative evaporation rate (butyl acetate=1) | : | < 0.01 |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | 232 - 273 °C |
| Flash point | : | > 135 °C |
| Auto-ignition temperature | : | 310 °C |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Vapor pressure | : | < 0.01 mm Hg |
| Relative vapor density at 20 °C | : | > 1 (air=1) |
| Relative density | : | 1.025 - 1.075 |
| Solubility | : | Soluble in water. |
| Log Pow | : | No data available |
| Log Kow | : | No data available |
| Viscosity, kinematic | : | 2 mm²/s @ 100 deg C |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |
| Explosion limits | : | No data available |

### 9.2. Other information

VOC content : < 1 %

## 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.

### 10.5. Incompatible materials

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.

| MAG1 DOT 3 BRAKE FLUID 5 GALLON | |
|---|---|
| LD50 oral rat | > 2000 mg/kg |

| 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) |

| Triethyleneglycol Monoethyl Ether (112-50-5) | |
|---|---|
| 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 | 2764 mg/kg (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity) |

| Diethylene Glycol (111-46-6) | |
|---|---|
| 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 : Causes skin irritation.
pH: 7.5 - 11.5

Serious eye damage/irritation : Causes serious eye damage.
pH: 7.5 - 11.5

Respiratory or skin sensitization : Not classified

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

Carcinogenicity : Not classified

| Polyalkylene Glycol Monobutyl Ether (9004-77-7) | |
|---|---|
| IARC group | 4 |

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 through prolonged or repeated exposure.

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 irritation or asthma-like symptoms.

Symptoms/injuries after skin contact : Itching. Skin rash/inflammation. Red skin. Causes skin irritation.

Symptoms/injuries after eye contact : Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue. Causes serious eye damage.

Symptoms/injuries after ingestion : May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways. Swallowing a small quantity of this material will result in serious health hazard.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Triethylene Glycol Monomethyl Ether (112-35-6) | |
|---|---|
| LC50 fish 1 | > 5000 mg/l (LC50; 96 h) |

| Triethylene Glycol Monomethyl Ether (112-35-6) | |
|---|---|
| EC50 Daphnia 1 | > 10000 mg/l (LC50; 48 h) |
| Threshold limit algae 1 | > 500 mg/l (EC50; 72 h) |

| Triethyleneglycol Monoethyl Ether (112-50-5) | |
|---|---|
| LC50 fish 1 | > 10000 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | > 10000 mg/l (LC50; 48 h) |

| Triethylene Glycol Monobutyl Ether (143-22-6) | |
|---|---|
| LC50 fish 2 | 2200 mg/l (LC50; 96 h) |
| EC50 Daphnia 2 | > 500 mg/l (EC50; 48 h) |
| Threshold limit algae 1 | > 500 mg/l (EC50; 72 h) |

| 3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-8) | |
|---|---|
| LC50 fish 1 | > 1409 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | > 1000 mg/l (EC50; 48 h) |
| Threshold limit algae 1 | > 1000 mg/l (EC50; 96 h) |

| Polyethylene Glycol 200-600 (25322-68-3) | |
|---|---|
| LC50 fish 2 | > 5000 mg/l (LC50; 24 h) |
| Threshold limit algae 2 | 500 mg/l (EC0; 720 h) |

| 2-(2-Butoxyethoxy) Ethanol (112-34-5) | |
|---|---|
| LC50 fish 1 | 1300 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimental value) |
| EC50 Daphnia 2 | > 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) |

| Diethylene Glycol (111-46-6) | |
|---|---|
| LC50 fish 1 | > 5000 ppm (LC50; 24 h) |
| EC50 Daphnia 1 | > 10000 mg/l (EC50; 24 h) |

| Diethylene Glycol Monomethyl Ether (111-77-3) | |
|---|---|
| LC50 fish 1 | 1000 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | > 500 mg/l (EC50; 48 h) |
| Threshold limit algae 1 | > 500 mg/l (EC50; 72 h) |

| Diethyleneglycolmonoethyl Ether (111-90-0) | |
|---|---|
| LC50 fish 1 | 12900 mg/l (LC50; 96 h; Salmo gairdneri) |
| EC50 Daphnia 1 | 3940 mg/l (EC50; 48 h) |

| Tetraethylene Glycol Monomethyl Ether (23783-42-8) | |
|---|---|
| LC50 fish 1 | > 10000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) |

| Oxirane, 2-Methyl-, Polymer with Oxirane, Monobutyl Ether (9038-95-3) | |
|---|---|
| LC50 other aquatic organisms 1 | > 10000 mg/l (96 h) |

### 12.2. Persistence and degradability

| MAG1 DOT 3 BRAKE FLUID 5 GALLON | |
|---|---|
| Persistence and degradability | Not established. |

| Triethylene Glycol Monomethyl Ether (112-35-6) | |
|---|---|
| Persistence and degradability | Inherently biodegradable. Non degradable in the soil. Photodegradation in the air. Not established. |

| Triethyleneglycol Monoethyl Ether (112-50-5) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. Not established. |

| Triethylene Glycol Monobutyl Ether (143-22-6) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. Not established. |
| Biochemical oxygen demand (BOD) | 0.02 g $O_2$ /g substance |
| Chemical oxygen demand (COD) | 1.83 g $O_2$ /g substance |

| 3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-8) | |
|---|---|
| Persistence and degradability | Not readily biodegradable in water. Inherently biodegradable. Not established. |
| ThOD | 2.05 g $O_2$ /g substance |

| Polyethylene Glycol 200-600 (25322-68-3) | |
|---|---|
| Persistence and degradability | Biodegradability in water: no data available. Not established. |

| 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 substance available. Photodegradation in the air. |
| Biochemical oxygen demand (BOD) | 0.25 g $O_2$ /g substance |

| 2-(2-Butoxyethoxy) Ethanol (112-34-5) | |
|---|---|
| Chemical oxygen demand (COD) | 2.08 g $O_2$ /g substance |
| ThOD | 2.173 g $O_2$ /g substance |
| BOD (% of ThOD) | 0.11 |

| Diethylene Glycol (111-46-6) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photolysis in the air. Not established. |
| 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 |

| Diethylene Glycol Monomethyl Ether (111-77-3) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. Photolysis in the air. Photodegradation in the air. Not established. |
| Chemical oxygen demand (COD) | 1.71 g $O_2$ /g substance |
| ThOD | 1.73 g $O_2$ /g substance |

| Diethyleneglycolmonoethyl Ether (111-90-0) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. Not established. |
| Biochemical oxygen demand (BOD) | 0.2 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 |

| Tetraethylene Glycol Monomethyl Ether (23783-42-8) | |
|---|---|
| Persistence and degradability | Inherently biodegradable. Photolysis in the air. Not established. |

| Oxirane, 2-Methyl-, Polymer with Oxirane, Monobutyl Ether (9038-95-3) | |
|---|---|
| Persistence and degradability | Not readily biodegradable in water. Not established. |

| Trade Secret Inhibitor Package (Trade Secret) | |
|---|---|
| Persistence and degradability | Not established. |

| Polyalkylene Glycol Monobutyl Ether (9004-77-7) | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| MAG1 DOT 3 BRAKE FLUID 5 GALLON | |
|---|---|
| Bioaccumulative potential | Not established. |

| Triethylene Glycol Monomethyl Ether (112-35-6) | |
|---|---|
| Log Pow | -1.13 |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |

| Triethyleneglycol Monoethyl Ether (112-50-5) | |
|---|---|
| Bioaccumulative potential | Not bioaccumulative. Not established. |

| Triethylene Glycol Monobutyl Ether (143-22-6) | |
|---|---|
| Log Pow | 0.51 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). Not established. |

| 3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-8) | |
|---|---|
| Log Pow | -0.26 (Calculated) |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |

| Polyethylene Glycol 200-600 (25322-68-3) | |
|---|---|
| Log Pow | -1.2 |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |

| 2-(2-Butoxyethoxy) Ethanol (112-34-5) | |
|---|---|
| BCF fish 1 | 0.46 (BCF) |
| Log Pow | 0.56 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| Diethylene Glycol (111-46-6) | |
|---|---|
| BCF fish 1 | 100 (BCF; Other; 3 days; Leuciscus melanotus; Static system; Fresh water; Experimental value) |
| Log Pow | -1.98 (Calculated; Other) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). Not established. |

| Diethylene Glycol Monomethyl Ether (111-77-3) | |
|---|---|
| Log Pow | -1.14 - -0.68 |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |

| Diethyleneglycolmonoethyl Ether (111-90-0) | |
|---|---|
| Log Pow | -1.19 - -0.08 |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |

| Tetraethylene Glycol Monomethyl Ether (23783-42-8) | |
|---|---|
| Log Pow | -0.6 |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |

| Oxirane, 2-Methyl-, Polymer with Oxirane, Monobutyl Ether (9038-95-3) | |
|---|---|
| Bioaccumulative potential | Not bioaccumulative. Not established. |

| Trade Secret Inhibitor Package (Trade Secret) | |
|---|---|
| Bioaccumulative potential | Not established. |

| 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 °C) |

| Diethylene Glycol (111-46-6) | |
|---|---|
| Surface tension | 0.0485 N/m |
| Log Koc | Koc,SRC PCKOCWIN v1.66; 1; Calculated value; log Koc; SRC PCKOCWIN v1.66; 0; Calculated value |

| Diethylene Glycol Monomethyl Ether (111-77-3) | |
|---|---|
| Surface tension | 0.035 N/m (25 °C) |

| Diethyleneglycolmonoethyl Ether (111-90-0) | |
|---|---|
| Surface tension | 0.032 N/m (25 °C) |

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging 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

### 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

| **MAG1 DOT 3 BRAKE FLUID** 5 GALLON | |
|---|---|
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard<br>Immediate (acute) health hazard |

| **Triethylene Glycol Monomethyl Ether (112-35-6)** |
|---|
| Subject to reporting requirements of United States SARA Section 313 |

| **Triethyleneglycol Monoethyl Ether (112-50-5)** |
|---|
| Subject to reporting requirements of United States SARA Section 313 |

| **Triethylene Glycol Monobutyl Ether (143-22-6)** |
|---|
| 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<br>Delayed (chronic) health hazard<br>Reactive hazard |

### 15.2. International regulations

#### CANADA

| **Triethyleneglycol Monoethyl Ether (112-50-5)** |
|---|

| **Triethylene Glycol Monobutyl Ether (143-22-6)** |
|---|

| **2-(2-Butoxyethoxy) Ethanol (112-34-5)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 3 - Combustible Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

#### EU-Regulations

| **Triethyleneglycol Monoethyl Ether (112-50-5)** |
|---|

| **Triethylene Glycol Monobutyl Ether (143-22-6)** |
|---|

| **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

| **Triethyleneglycol Monoethyl Ether (112-50-5)** |
|---|

| **Triethylene Glycol Monobutyl Ether (143-22-6)** |
|---|

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

### 15.3. US State regulations

| **MAG1 DOT 3 BRAKE FLUID** 5 GALLON | |
|---|---|
| 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 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| **Triethyleneglycol Monoethyl Ether (112-50-5)** | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| **Triethylene Glycol Monobutyl 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| **3,6,9,12-Tetraoxahexadecane-1-ol (1559-34-8)** | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| **Polyethylene Glycol 200-600 (25322-68-3)** | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| **2-(2-Butoxyethoxy) Ethanol (112-34-5)** | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| **Diethylene Glycol (111-46-6)** | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| **Diethylene Glycol Monomethyl Ether (111-77-3)** | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| **Diethyleneglycolmonoethyl Ether (111-90-0)** | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| **Tetraethylene Glycol Monomethyl Ether (23783-42-8)** | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| **Oxirane, 2-Methyl-, Polymer with Oxirane,** Monobutyl Ether **(9038-95-3)** | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| Trade Secret Inhibitor Package (Trade Secret) | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| Polyalkylene Glycol Monobutyl Ether (9004-77-7) | | | | |
|---|---|---|---|---|
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

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

**Triethylene Glycol Monobutyl Ether (143-22-6)**

**State or local regulations**

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

**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

Indication of changes : Revision - See : *.

Other information : None.

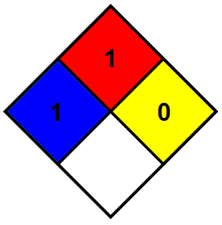
Full text of H-phrases:

| | |
|---|---|
| H227 | Combustible liquid |
| 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 : 1 Slight Hazard - Irritation or minor reversible injury possible

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 SDS 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.*