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tance/mixture and of the company/undertaking Mixture
Mixture
Mixture
MIGHTY DOT 4 BRAKE FLUID 12 FL.OZ.
BK107
nce or mixture and uses advised against
Brake Fluid
ta sheet
CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)
ture
GHS05 GHS07 GHS08 Danger
H302+H332 - Harmful if swallowed or if inhaled
H315 - Causes skin irritation H318 - Causes serious eye damage H373 - May cause damage to organs through prolonged or repeated exposure
<ul> <li>P260 - Do not breathe dust,fumes,gas,mist,vapor spray</li> <li>P261 - Avoid breathing dust,fume,gas,mist,vapor spray</li> <li>P264 - Wash affected areas thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves,protective clothing,eye protection,face protection</li> <li>P301+P312 - If swallowed: Call a poison center, doctor if you feel unwell</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove cont</li> <li>lenses, if present and easy to do. Continue rinsing</li> <li>P310 - Immediately call a poison center, doctor, if you feel unwell.</li> <li>P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.</li> <li>P314 - Get medical advice/attention if you feel unwell</li> <li>P321 - Specific treatment: See section 4.1 on SDS</li> <li>P330 - Rinse mouth</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P362 - Take off contaminated clothing and wash before reuse</li> <li>P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance wit local, regional, national, international regulations.</li> </ul>
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#### Unknown acute toxicity (GHS-US) 2.4.

### No data available

### **SECTION 3: Composition/information on ingredients**

#### Substance 3.1.

- - -

Not applicable

Name	Product identifier	%	Classification (GHS-US)
2,5,8,11-Tetraoxatridecan- 13-ol, Mixed Esters With Boric Acid	(CAS No) 176022-80-3	15 - 40	Not classified
Triethylene Glycol Monomethyl Ether	(CAS No) 112-35-6	10 - 30	Not classified
Methoxy Polyethylene Glycol 350	(CAS No) 9004-74-4	10 - 30	Not classified
Triethylene Glycol Monobutyl Ether	(CAS No) 143-22-6	8 - 18	Eye Dam. 1, H318
Polyalkylene Glycol Monobutyl Ether	(CAS No) 9004-77-7	7 - 13	Not classified
Tetraethylene Glycol	(CAS No) 112-60-7	1 - 10	Not classified
Triethyleneglycol	(CAS No) 112-27-6	1 - 5	Not classified
3,6,9,12-Tetraoxatetradecane-1,14-diol	(CAS No) 4792-15-8	1 - 5	Not classified
Diisopropanolamine	(CAS No) 110-97-4	<= 1.5	Not classified

#### SECTION 4: First and measures 4.1. Description of first aid measures First-aid measures general · Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
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/doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	ts, both acute and delayed
Symptoms/injuries	: Causes damage to organs.
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful 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. Irritation of the eye tissue. Inflammation/damage 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.

Эy np nju 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.	
Unsuita	ble extinguishing media	: Do not use a heavy water stream.	
5.2.	Special hazards arising from the su	Ibstance or mixture	
No addi	tional information available		
5.3.	Advice for firefighters		
Firefight	ting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protecti	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection	
SECT	ION 6: Accidental release mea	isures	
6.1.	Personal precautions, protective ed	quipment and emergency procedures	
General	Imeasures	: Remove ignition sources. Use special care to avoid static electric charges.	
6.1.1.	For non-emergency personnel		
Protecti	ve equipment	: Gloves. Safety glasses.	
Emerge	ncy procedures	: Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Protecti	ve equipment	: Equip cleanup crew with proper protection.	
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Emerg	ency procedures	: Ventilate area.		
6.2.	Environmental precautions			
Prever	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.			
6.3.	Methods and material for contai	inment and cleaning up		
For co	ntainment	: Dam up the liquid spill. Plug the leak, cut off the supply. Contain released substance, pump into suitable containers.		
Method	ls 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 o vapor. Use only outdoors or in a well-ventilated area. 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, includi	ng any incompatibilities		
Technical measures	: Proper grounding procedures to avoid static electricity should be followed.		
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.		
Storage area	: Keep only in the original container.		
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			
2,5,8,11-Tetraoxatridecan- 13-ol, Mixed Esters With Boric Acid (176022-80-3)			
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m <sup>3</sup>	
8.2. Exposure controls	- -		
Appropriate engineering controls	s : Local exhaust venilation, vent	noods . Ensure good ventilation of the work station.	
Personal protective equipment	: Gloves. Safety glasses. Avoid	all unnecessary exposure.	
	nm and		

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

0.4 Information on basis abusisal on	d chemical preparties
9.1. Information on basic physical an	a chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Color	: Colourless to light yellow.
Odor	: Mild . Ammoniacal.
Odor threshold	: No data available
рН	: 7-9
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: <-59 °C

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<b>o</b>	
Freezing point	: No data available
Boiling point	: > 243 °C
Flash point	: >121 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.01 mm Hg Estimated
Relative vapor density at 20 °C	: No data available
Relative density	: 1.03 - 1.08
Solubility	: Soluble in water. Water: 100% Estimated
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 1100 mm <sup>2</sup> /s @ -40 deg C Estimated
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	

VOC content

: 0%

SECTI	ON 10: Stability and reactivity			
10.1.	Reactivity			
No addit	No additional information available			
10.2.	Chemical stability			
Not esta	blished.			
10.3.	Possibility of hazardous reactions			
Not esta	blished.			
10.4.	Conditions to avoid			
Direct sunlight. Extremely high or low temperatures.				
10.5.	Incompatible materials			
Oxidizing agent. Strong acids. Strong bases.				
10.6.	Hazardous decomposition products			
Toxic fume Carbon monoxide. Carbon dioxide.				
SECTI	ON 11: Toxicological information			

11.1. Information on toxicological effects

Acute toxicity

: Harmful if swallowed. Harmful if inhaled.

Triethylene Glycol Monomethyl Ether (112-35-6)			
LD50 oral rat	11865 mg/kg (Rat)		
LD50 dermal rabbit	7455 mg/kg (Rabbit)		
Methoxy Polyethylene Glycol 350 (9004-74-4)			
LD50 oral rat	22000 mg/kg (Rat)		
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)		
Triethylene Glycol Monobutyl Ether (143-22-6	Triethylene Glycol Monobutyl Ether (143-22-6)		
LD50 oral rat	> 5000 mg/kg (Rat)		
LD50 dermal rabbit	3480 mg/kg (Rabbit)		
Tetraethylene Glycol (112-60-7)			
LD50 oral rat	29000 mg/kg (Rat)		
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)		
Triethyleneglycol (112-27-6)			
LD50 oral rat	> 5000 mg/kg (Rat)		
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)		

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Diisopropanolamine (110-97-4)		
LD50 oral rat	4765 mg/kg (Rat)	
LD50 dermal rat	16000 mg/kg (Rat)	
LD50 dermal rabbit	8000 mg/kg (Rabbit)	
Skin corrosion/irritation	: Causes skin irritation.	
	pH: 7 - 9	
Serious eye damage/irritation	: Causes serious eye damage.	
	рН: 7 - 9	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Polyalkylene Glycol Monobutyl Ether (9004-	77-7)	
IARC group	4	
Reproductive toxicity	: Not classified	
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	

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

: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

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

Potential Adverse human health effects and symptoms
Symptoms/injuries after inhalation

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. Irritation of the eye tissue. Inflammation/damage of the eye tissue.

inhaled.

inhaled.

Redness of the eye tissue.

Symptoms/injuries after ingestion	

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Triethylene Glycol Monomethyl Ether (112-35-6)		
LC50 fish 1	> 5000 mg/I (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)	
Methoxy Polyethylene Glycol 350 (9004-74-4)		
LC50 fish 1	> 10000 mg/l (Pimephales promelas)	
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)	
Tetraethylene Glycol (112-60-7)		
LC50 fish 1	> 5000 mg/l (24 h; Carassius auratus)	
Triethyleneglycol (112-27-6)		
LC50 fish 1	59900 mg/l (96 h; Pimephales promelas)	
EC50 Daphnia 1	42426 mg/l (48 h; Daphnia magna)	
LC50 fish 2	61000 mg/l (96 h; Lepomis macrochirus)	
TLM fish 1	> 1000 ppm (96 h; Pisces)	
TLM other aquatic organisms 1	> 1000 ppm (96 h)	
Threshold limit algae 1	3600 mg/l (168 h; Microcystis aeruginosa)	
Threshold limit algae 2	> 10000 mg/l (168 h; Scenedesmus quadricauda)	
Diisopropanolamine (110-97-4)		
LC50 fish 1	1000 - 2200 mg/l (96 h; Brachydanio rerio; pH > 7)	

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Diisopropanolamine (110-97-4)	
LC50 other aquatic organisms 1	100 - 1000 mg/l (48 h; Xenopus laevis)
EC50 Daphnia 1	353.8 mg/l (24 h; Daphnia magna)
LC50 fish 2	1100 mg/l (24 h; Carassius auratus)
LC50 other aquatic organisms 2	410 mg/l
EC50 Daphnia 2	277.7 mg/l (48 h; Daphnia magna)
Threshold limit other aquatic organisms 1	100 - 1000,48 h; Xenopus laevis
Threshold limit other aquatic organisms 2	410 mg/l
Threshold limit algae 1	270 mg/l (72 h; Scenedesmus subspicatus)
12.2. Persistence and degradability	
MIGHTY DOT 4 BRAKE FLUID 12 FL.OZ.	
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.
Methoxy Polyethylene Glycol 350 (9004-74-4)	
Persistence and degradability	Not readily biodegradable in water.
BOD (% of ThOD)	(28 day(s)) 0.1
Triethylene Glycol Monobutyl Ether (143-22-6	)
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.02 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.83 g O     2 /g substance
Tetraethylene Glycol (112-60-7)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.50 g O 2 /g substance (10d)
	2.23 g O <sub>2</sub> substance
BOD (% of ThOD)	0.286 % ThOD
2,5,8,11-Tetraoxatridecan- 13-ol, Mixed Esters	s With Boric Acid (176022-80-3)
Persistence and degradability	Not established.
Polyalkylene Glycol Monobutyl Ether (9004-7	7-7)
Persistence and degradability	Not established.
	1
3,6,9,12-Tetraoxatetradecane-1,14-diol (4792-	,
Persistence and degradability	Biodegradability in water: no data available.
Triethyleneglycol (112-27-6)	
Persistence and degradability	Inherently biodegradable. Readily biodegradable in water. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.03 g O 2 /g substance
Chemical oxygen demand (COD)	1.57 g O 2 /g substance
ThOD	1.6 g O 2 /g substance
Diisopropanolamine (110-97-4)	
Persistence and degradability	Not readily biodegradable in water.
	······································
12.3. Bioaccumulative potential	
MIGHTY DOT 4 BRAKE FLUID 12 FL.OZ.	
Bioaccumulative potential	Not established.
Triethylene Glycol Monomethyl Ether (112-35	-6)
Log Pow	-1.13
Bioaccumulative potential	Bioaccumulation: not applicable.
Methoxy Polyethylene Glycol 350 (9004-74-4)	
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).
Tetraethylene Glycol (112-60-7)	
Log Pow	-2.181.38
Bioaccumulative potential	Bioaccumulation: not applicable.
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2,5,8,11-Tetraoxatridecan- 13-ol, Mixed Est		
oaccumulative potential Not established.		
Polyalkylene Glycol Monobutyl Ether (9004-77-7)		
Bioaccumulative potential Not established.		
3,6,9,12-Tetraoxatetradecane-1,14-diol (479	12-15-8)	
Log Pow	-2.30 (Estimated value)	
Bioaccumulative potential	Bioaccumulation: not applicable.	
Triethyleneglycol (112-27-6)		
Log Pow	-2.081.17 (Calculated)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Diisopropanolamine (110-97-4)		
Log Pow	-0.79	
Bioaccumulative potential	Bioaccumulation: not applicable.	
12.4. Mobility in soil		
Triethylene Glycol Monomethyl Ether (112-	35-6)	
Surface tension	0.0314 N/m	
Methoxy Polyethylene Glycol 350 (9004-74-	-4)	
Surface tension	0.04 N/m	
Tetraethylene Glycol (112-60-7)		
Surface tension	0.019 N/m	
Triethyleneglycol (112-27-6) Surface tension	0.045 N/m (20 °C)	
12.5. Other adverse effects		
Other information	: Avoid release to the environment.	
SECTION 13: Disposal consideratio	ne	
	115	
13.1. Waste treatment methods	· Dispass in a safe manner in accordance with legal/actional regulations. Dispass of	
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 / A		
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 informatio	n	
15.1. US Federal regulations		
MIGHTY DOT 4 BRAKE FLUID 12 FL.OZ.		
Listed on the United States TSCA (Toxic Subs	stances Control Act) inventory	
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MIGHTY DOT 4 BRAKE FLUID 12 FL.OZ.	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard 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]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified

15.2.2. National regulations

#### MIGHTY DOT 4 BRAKE FLUID 12 FL.OZ.

Listed on AICS (Australian Inventory of Chemical Substances)

15.3. US State regulations	
MIGHTY DOT 4 BRAKE FLUID 12 FL.OZ.	
State or local regulations	U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

CTION 16: Other information	1	
er information	: None.	
text of H-phrases: see section 16:		
Acute Tox. 4 (Inhalation:dust,mis	st)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
Eye Dam. 1		Serious eye damage/eye irritation Category 1
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
H332		Harmful if inhaled
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

SDS US (GHS HazCom 2012) - TCC

Physical

**Personal Protection** 

: 0 Minimal Hazard

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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

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