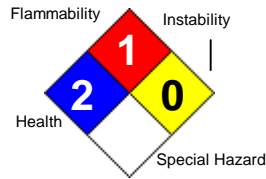




MATERIAL SAFETY DATA SHEET

Super Heavy Duty Dot 3 Brake Fluid

CYCLO INDUSTRIES, INC.
401 MAPLEWOOD DRIVE
SUITE 18
JUPITER, FL 33458



Revision: 09/13/2010

Date Created: 09/13/2010

1. Product and Company Identification

Product Code: C-55,C-56,C-57

Product Name: Super Heavy Duty Dot 3 Brake Fluid

Manufacturer Information

Company Name: CYCLO INDUSTRIES, INC.

Phone Number: (800)843-7813

Fax Number: (561)745-3867

Emergency Contact: First Aid Emergency (800)222-1222

Alternate Emergency Contact: Chemtrec (703) 527-3887 (800)424-9300

Information: First Aid Emergency (Outside U.S.) (312)906-6194

Web site address: www.cyclo.com

Email address: ehs@cyclo.com

2. Hazards Identification

Emergency Overview

Danger: May be fatal if swallowed. This material is an eye irritant. May cause allergic skin reaction. Vapors are mildly to markedly irritating to the lungs depending on the exposure level. Ingestion may cause abdominal discomfort, nausea, and vomiting. May produce central nervous system depression and kidney damage.

Potential Health Effects (Acute and Chronic)

No data available.

Signs and Symptoms Of Exposure

No data available.

Medical Conditions Generally Aggravated By Exposure

No data available.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Diethylene glycol monobutyl ether	112-34-5	5.0 -20.0 %
2. Triethylene glycol monoethyl ether	112-35-6	6.0 -25.0 %
3. Triethylene glycol monoethyl ether	112-50-5	6.0 -25.0 %
4. Triethylene glycol monobutyl ether	143-22-6	20.0 -39.0 %
5. Tetraethylend glycol	1559-34-8	5.0 -20.0 %
6. 2,5,8,11-Tetraoxatridecan-13-ol	23783-42-8	5.0 -20.0 %
7. Polyethylene glycol	25322-68-3	5.0 -20.0 %
8. Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	9004-77-7	5.0 -20.0 %
9. Polyalkylene glycol	9038-95-3	5.0 -20.0 %
10. Diethylene glycol	111-46-6	5.0 -15.0 %
11. Ethanol, 2-(2-Methoxyethoxy)-	111-77-3	< 5.0 %
12. Diethylene glycol monoethyl ether	111-90-0	< 5.0 %
13. Trade Secret Inhibitor Package	NA	< 3.0 %



4. First Aid Measures

Emergency and First Aid Procedures

If swallowed, induce vomiting immediately as directed by medical personnel. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Vapors or mists from this material can irritate the nose, throat and lungs and cause signs and symptoms of nervous system depression, depending on the concentration and duration of exposure. In case of eye contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes. In case of skin contact, wash with soap and water. Remove contaminated clothing and shoes and launder before reuse. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures

Flash Pt: > 135.00 C (275.0 F) Method Used: TAG Closed Cup
Explosive Limits: LEL: No data. UEL: No data.
Autoignition Pt: No data available.

Fire Fighting Instructions

Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Do not release runoff from fire control methods to sewers or waterways. Fight fire from a maximum distance or use unmanned hose holders or monitor nozzles. Containers can build up pressure if exposed to heat; cool with flooding quantities of water until well after the fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of vessel.

Flammable Properties and Hazards

No data available.

Hazardous Combustion Products

Carbon monoxide. Carbon dioxide. Unidentified organic compounds.

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Unsuitable Extinguishing Media

Do not use straight water streams.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Wear appropriate protective clothing and equipment to prevent skin and eye contact. Avoid all sources of ignition; heat, sparks and open flames. Contain any liquid from leaking containers. Ventilate spill area. Soak up material with absorbent and place in chemical waste container. If clean-up is not immediate, cover spill with plastic or canvas to keep dry. Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

7. Handling and Storage

Precautions To Be Taken in Handling

Do not swallow. Use only in a well ventilated area. Keep out of the reach of children.

Precautions To Be Taken in Storing

Store in a cool, dry place. Keep container closed when not in use to prevent contact with acidic, basic or oxidizing materials.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Diethylene glycol monobutyl ether	112-34-5	No data.	No data.	No data.
2. Triethylene glycol monoethyl ether	112-35-6	No data.	No data.	No data.



MATERIAL SAFETY DATA SHEET

Super Heavy Duty Dot 3 Brake Fluid

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
3. Triethylene glycol monoethyl ether	112-50-5	No data.	No data.	No data.
4. Triethylene glycol monobutyl ether	143-22-6	No data.	No data.	No data.
5. Tetraethylend glycol	1559-34-8	No data.	No data.	No data.
6. 2,5,8,11-Tetraoxatridecan-13-ol	23783-42-8	No data.	No data.	No data.
7. Polyethylene glycol	25322-68-3	No data.	No data.	No data.
8. Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	9004-77-7	No data.	No data.	No data.
9. Polyalkylene glycol	9038-95-3	No data.	No data.	No data.
10. Diethylene glycol	111-46-6	No data.	No data.	No data.
11. Ethanol, 2-(2-Methoxyethoxy)-	111-77-3	No data.	No data.	No data.
12. Diethylene glycol monoethyl ether	111-90-0	No data.	No data.	No data.
13. Trade Secret Inhibitor Package	NA	No data.	No data.	No data.

Respiratory Equipment (Specify Type)

An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.

Eye Protection

Chemical goggles; also wear a face shield if splashing hazard exists.

Protective Gloves

Avoid skin contact. Wear protective gloves. Rubber, Neoprene or Vinyl.

Other Protective Clothing

Avoid skin contact. Wear protective clothing.

Engineering Controls (Ventilation etc.)

Exhaust ventilation. Eyewash stations. Showers.

Work/Hygienic/Maintenance Practices

No data available.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Melting Point:	-58.00 F (-50.0 C)
Boiling Point:	No data.
Autoignition Pt:	No data.
Flash Pt:	> 135.00 C (275.0 F) Method Used: TAG Closed Cup
Specific Gravity (Water = 1):	1.000 - 1.070@4C
Density:	8.33 - 9.02 LB/GA
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate (vs Butyl Acetate=1):	< .01
Solubility in Water:	Soluble
Percent Volatile:	No data.
pH:	10 - 11.5

Appearance and Odor

Clear, yellow to amber colloidal liquid with mild odor.



10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

Keep away from heat, sparks and flame.

Incompatibility - Materials To Avoid

Avoid contact with acidic, basic or oxidizing agents.

Hazardous Decomposition Or Byproducts

Carbon monoxide. Carbon dioxide. Unknown organic compounds.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions

No data available.

11. Toxicological Information

No data available.

Chronic Toxicological Effects

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Diethylene glycol monobutyl ether	112-34-5	n.a.	n.a.	n.a.	n.a.
2. Triethylene glycol monoethyl ether	112-35-6	n.a.	n.a.	n.a.	n.a.
3. Triethylene glycol monoethyl ether	112-50-5	n.a.	n.a.	n.a.	n.a.
4. Triethylene glycol monobutyl ether	143-22-6	n.a.	n.a.	n.a.	n.a.
5. Tetraethylend glycol	1559-34-8	n.a.	n.a.	n.a.	n.a.
6. 2,5,8,11-Tetraoxatridecan-13-ol	23783-42-8	n.a.	n.a.	n.a.	n.a.
7. Polyethylene glycol	25322-68-3	n.a.	n.a.	n.a.	n.a.
8. Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	9004-77-7	n.a.	n.a.	n.a.	n.a.
9. Polyalkylene glycol	9038-95-3	n.a.	n.a.	n.a.	n.a.
10. Diethylene glycol	111-46-6	n.a.	n.a.	n.a.	n.a.
11. Ethanol, 2-(2-Methoxyethoxy)-	111-77-3	n.a.	n.a.	n.a.	n.a.
12. Diethylene glycol monoethyl ether	111-90-0	n.a.	n.a.	n.a.	n.a.
13. Trade Secret Inhibitor Package	NA	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method

No specific component of this material is listed as a Hazardous Substance CERCLA (40 COPPERY 261).

However, this product contains various ethylene glycolic and glycol ethers which are each included as a broad category on the CERCLA Hazardous substances list. Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts. Disposal should be made in accordance with federal, state and local regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not-Restricted

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name Not-Restricted

Additional Transport Information

No data available.



15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Diethylene glycol monobutyl ether	112-34-5	No	No	Yes-Cat. N230	No
2. Triethylene glycol monoethyl ether	112-35-6	No	No	Yes-Cat. N230	No
3. Triethylene glycol monoethyl ether	112-50-5	No	No	Yes-Cat. N230	No
4. Triethylene glycol monobutyl ether	143-22-6	No	No	Yes-Cat. N230	No
5. Tetraethylend glycol	1559-34-8	No	No	No	No
6. 2,5,8,11-Tetraoxatridecan-13-ol	23783-42-8	No	No	No	No
7. Polyethylene glycol	25322-68-3	No	No	No	No
8. Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	9004-77-7	No	No	No	No
9. Polyalkylene glycol	9038-95-3	No	No	No	No
10. Diethylene glycol	111-46-6	No	No	No	No
11. Ethanol, 2-(2-Methoxyethoxy)-	111-77-3	No	No	Yes-Cat. N230	No
12. Diethylene glycol monoethyl ether	111-90-0	No	No	Yes-Cat. N230	No
13. Trade Secret Inhibitor Package	NA	No	No	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Diethylene glycol monobutyl ether	112-34-5	No	No	Inventory	No
2. Triethylene glycol monoethyl ether	112-35-6	No	No	Inventory	No
3. Triethylene glycol monoethyl ether	112-50-5	No	No	Inventory	No
4. Triethylene glycol monobutyl ether	143-22-6	No	No	Inventory	No
5. Tetraethylend glycol	1559-34-8	No	No	Inventory	No
6. 2,5,8,11-Tetraoxatridecan-13-ol	23783-42-8	No	No	Inventory, 8A PAIR, 8D TERM	No
7. Polyethylene glycol	25322-68-3	No	No	Inventory	No
8. Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	9004-77-7	No	No	Inventory	No
9. Polyalkylene glycol	9038-95-3	No	No	Inventory	No
10. Diethylene glycol	111-46-6	No	No	Inventory	No
11. Ethanol, 2-(2-Methoxyethoxy)-	111-77-3	No	No	Inventory, 8D TERM	No
12. Diethylene glycol monoethyl ether	111-90-0	No	No	Inventory, 8D TERM	No
13. Trade Secret Inhibitor Package	NA	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. Diethylene glycol monobutyl ether	112-34-5	No	No	No	No
2. Triethylene glycol monoethyl ether	112-35-6	No	No	No	No
3. Triethylene glycol monoethyl ether	112-50-5	No	No	No	No
4. Triethylene glycol monobutyl ether	143-22-6	No	No	No	No
5. Tetraethylend glycol	1559-34-8	No	No	No	No
6. 2,5,8,11-Tetraoxatridecan-13-ol	23783-42-8	No	No	No	No
7. Polyethylene glycol	25322-68-3	No	No	No	No
8. Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	9004-77-7	No	No	No	No
9. Polyalkylene glycol	9038-95-3	No	No	No	No
10. Diethylene glycol	111-46-6	No	No	No	No
11. Ethanol, 2-(2-Methoxyethoxy)-	111-77-3	No	Yes	No	No
12. Diethylene glycol monoethyl ether	111-90-0	No	No	No	No
13. Trade Secret Inhibitor Package	NA	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. Diethylene glycol monobutyl ether	112-34-5	No	No	No	No



MATERIAL SAFETY DATA SHEET

Super Heavy Duty Dot 3 Brake Fluid

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
2. Triethylene glycol monoethyl ether	112-35-6	No	No	No	No
3. Triethylene glycol monoethyl ether	112-50-5	No	No	No	No
4. Triethylene glycol monobutyl ether	143-22-6	No	No	No	No
5. Tetraethylend glycol	1559-34-8	No	No	No	No
6. 2,5,8,11-Tetraoxatridecan-13-ol	23783-42-8	No	No	No	No
7. Polyethylene glycol	25322-68-3	No	No	No	No
8. Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	9004-77-7	No	No	No	No
9. Polyalkylene glycol	9038-95-3	No	No	No	No
10. Diethylene glycol	111-46-6	No	No	Yes - 1	No
11. Ethanol, 2-(2-Methoxyethoxy)-	111-77-3	No	No	Yes - 1	No
12. Diethylene glycol monoethyl ether	111-90-0	No	No	No	No
13. Trade Secret Inhibitor Package	NA	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	WI Air
1. Diethylene glycol monobutyl ether	112-34-5	No
2. Triethylene glycol monoethyl ether	112-35-6	No
3. Triethylene glycol monoethyl ether	112-50-5	No
4. Triethylene glycol monobutyl ether	143-22-6	No
5. Tetraethylend glycol	1559-34-8	No
6. 2,5,8,11-Tetraoxatridecan-13-ol	23783-42-8	No
7. Polyethylene glycol	25322-68-3	No
8. Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	9004-77-7	No
9. Polyalkylene glycol	9038-95-3	No
10. Diethylene glycol	111-46-6	No
11. Ethanol, 2-(2-Methoxyethoxy)-	111-77-3	No
12. Diethylene glycol monoethyl ether	111-90-0	No
13. Trade Secret Inhibitor Package	NA	No

International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. Diethylene glycol monobutyl ether	112-34-5	Yes	No	No
2. Triethylene glycol monoethyl ether	112-35-6	Yes	No	No
3. Triethylene glycol monoethyl ether	112-50-5	Yes	No	No
4. Triethylene glycol monobutyl ether	143-22-6	Yes	No	No
5. Tetraethylend glycol	1559-34-8	Yes	No	No
6. 2,5,8,11-Tetraoxatridecan-13-ol	23783-42-8	Yes	No	No
7. Polyethylene glycol	25322-68-3	Yes	No	No
8. Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	9004-77-7	Yes	No	No
9. Polyalkylene glycol	9038-95-3	Yes	No	No
10. Diethylene glycol	111-46-6	Yes	No	No
11. Ethanol, 2-(2-Methoxyethoxy)-	111-77-3	Yes	No	No
12. Diethylene glycol monoethyl ether	111-90-0	Yes	No	No
13. Trade Secret Inhibitor Package	NA	No	No	No

SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

Sec.302:

EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.

Sec.304:

EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.



- Sec.313:** EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
- Sec.110:** EPA SARA 110 Superfund Site Priority Contaminant List

TSCA (Toxic Substances Control Act) Lists:

- Inventory:** Chemical Listed in the TSCA Inventory.
- 5A(2):** Chemical Subject to Significant New Rules (SNURS)
- 6A:** Commercial Chemical Control Rules
- 8A:** Toxic Substances Subject To Information Rules on Production
- 8A CAIR:** Comprehensive Assessment Information Rules - (CAIR)
- 8A PAIR:** Preliminary Assessment Information Rules - (PAIR)
- 8C:** Records of Allegations of Significant Adverse Reactions
- 8D:** Health and Safety Data Reporting Rules
- 8D TERM:** Health and Safety Data Reporting Rule Terminations
- 12(b):** Notice of Export

Other Important Lists:

- CWA NPDES:** EPA Clean Water Act NPDES Permit Chemical
- CAA HAP:** EPA Clean Air Act Hazardous Air Pollutant
- CAA ODC:** EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
- CA PROP 65:** California Proposition 65
- CA TAC:** California AB 1807 - Toxic Air Contaminants
- CA Title 8:** California Hazardous Substances List: Title 8, Sec. 339
- MI CMR:** Michigan Critical Materials Register
- MI Part 5:** Michigan DEQ WRP Part 5 Pollutants List
- NC TAP:** North Carolina Toxic Air Pollutants
- NJ EHS:** New Jersey Environmental Hazardous Substances List
- NY Part 597:** New York Part 597 List of Hazardous Substances
- PA HSL:** Pennsylvania Hazardous Substances List
- SC TAP:** South Carolina Toxic Air Pollutants
- WI Air:** Wisconsin Reportable Air Contaminants

International Regulatory Lists:

- Canadian DSL:** Canada Domestic Substances List
- Canadian NDSL:** Canada Non-Domestic Substances List
- Taiwan TCSCA:** Taiwan Toxic Chemical Substances Control Act of 1986

16. Other Information

Company Policy or Disclaimer

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