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SECTION 1: IDENTIFICATION

1.1. **Product Identifier**

Product Form: Mixture

Product Name: RILCO DOT 3 Brake Fluid, DOT Heavy Duty Brake Fluid

Synonyms: Automotive Brake fluid

Intended Use of the Product 1.2.

Automotive Brake Fluid

1.3. Name, Address, and Telephone of the Responsible Party

RILCO

1320 1st Street Rock Island, IL 61201 Phone - 309 788 5631

1.4. **Emergency Telephone Number**

Emergency Number (800) 424-9300 Chemtrec

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Acute Oral Toxicity, 4 Serious Eye Damage/Eye Irritation, 1

Full text of H-phrases: see section 16

Label Elements 2.2.

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H302: Harmful if swallowed H318: Causes serious eye damage

Precautionary Statements (GHS-US)

P280, P264, P270: Wear eye protection/face protection. Wash face, hands, and exposed skin thoroughly after handling. Do not eat Drink or smoke when using

H302

H318

this product.

P301 + P312, P330, P305 + P351 + P338, P310, P332 + P313: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF IN EYES: 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. If skin irritation occurs: Get medical advice/attention.

P501: Dispose of contents/container in accordance with all local, state, national

and international regulations.

Other Hazards 2.3.

None Known

2.4. **Unknown Acute Toxicity (GHS-US)**

20.73 percent of the mixture consists of ingredient(s) of unknown acute toxicity.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Triethylene glycol, monobutyl ether	(CAS No) 143-22-6	15-30	Eye Damage, 1 H318
Diethylene glycol	(CAS No) 111-46-6	15-25	Acute Toxicity, Oral, 4: H302 Skin Irritation, 3: H316 Eye Irritation, 2B: H320
Diethylene glycol monobutyl ether	(CAS No) 112-34-5	10-20	Acute Toxicity, Dermal, 5: H313 Eye irritation, 2A: H319
Ethanol, 2-(2-propoxyethoxy)-	(CAS No) 6881-94-3	5-10	Not specified

^{*}The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). **Inhalation:** Get medical attention immediately if symptoms occur.

Skin Contact: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Call a physician or Poison Control Center immediately.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: No known significant effects or critical hazards. **Inhalation:** No known significant effects or critical hazards.

Skin Contact: If skin irritation occurs: Get medical advice/attention.

Eye Contact: Burning red eyes tearing

Ingestion: No known significant effects or critical hazards.

Chronic Symptoms: No known significant effects or critical hazards.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: none

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: None known

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: No specific instructions.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons.

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Other Information: Refer to Section 9 for flammability properties.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so.

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: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Put on appropriate personal protective equipment (see Section 8). Do not swallow.

Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. 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: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool place. Keep container tightly closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Do not store in unlabeled containers.

Incompatible Materials: strong oxidizing agents

7.3. Specific End Use(s)

Automotive Brake Fluid

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Gloves.





Materials for Protective Clothing: non required

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

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Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: No special protective equipment required.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: 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: LiquidAppearance: AmberOdor: EthericOdor Threshold: Not available

pH : 10.5

Evaporation Rate: Not availableMelting Point: Not available

Not available **Freezing Point** 205 °C **Boiling Point Flash Point** 203 °C (COC) **Auto-ignition Temperature** >220 °C (>428°F) **Decomposition Temperature** Not available Flammability (solid, gas) Not available **Lower Flammable Limit** Not available Not available **Upper Flammable Limit Vapor Pressure** Not available Not available Relative Vapor Density at 20 °C **Relative Density** Not available

Specific Gravity : 1.06

Solubility: Completely solublePartition Coefficient: N-Octanol/Water: Not availableViscosity: <1500 CST</th>Viscosity, Kinematic: Not Available

Explosive Properties : Product is not explosive

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact Explosion Data – Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge

VOC Content : None

SECTION 10: STABILITY AND REACTIVITY

- **10.1. Reactivity:** No specific test data related to reactivity available for this product or its ingredients.
- 10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions: Under normal condition of storage and use, hazardous reactions will not occur.
- **10.4. Conditions to Avoid:** None known based on information supplied.
- 10.5. Incompatible Materials: strong oxidizing agents
- 10.6. Hazardous Decomposition Products: Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity: Oral, 4 LD50 and LC50 Data:

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Numerical Measures of toxicity for the final product calculated based on chapter 3.1 of the GHS Document.		
LD50 Oral 1667 mg/kg		
LD50 Dermal	4606 mg/kg	

Skin Corrosion/Irritation: Causes mild skin irritation Eye Damage/Irritation: Causes serious eye damage Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified **Carcinogenicity:** Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Not classified

Symptoms/Injuries After Skin Contact: Repeated or prolonged skin contact may cause irritation.

Symptoms/Injuries After Eye Contact: Eye Contact with liquid may cause irritation including stinging, burning, tearing, or

reddening of the eyes.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: No information available

11.2. Information on Toxicological Effects - Ingredient(s)

See 11.1

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Triethylene glycol, monobutyl ether	EC50 72 h: > 500 mg/L (Desmodesmus subspicatus)	LC50 96 h: 2200-4600 mg/L static (Leuciscus idus) LC50 96 h: = 2400 mg/L (Pimephales promelas) LC50 96 h: = 2400 mg/L static (Pimephales promelas)		EC50 48 h: > 500 mg/L (Daphnia magna)
Diethylene glycol		LC50 96 h: = 75200 mg/L flow-through (Pimephales promelas)	EC50 = 29228 mg/L 15 min	EC50 48 h: = 84000 mg/L (Daphnia magna)
Diethylene glycol monobutyl ether	EC50 96 h: > 100 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 1300 mg/L static (Lepomis macrochirus)		EC50 24 h: = 2850 mg/L (Daphnia magna) EC50 48 h: > 100 mg/L (Daphnia magna)
Tetraethylene glycol	EC50 96 h: > 1000 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: > 1000 mg/L static (Oncorhynchus mykiss)	EC50 > 100 mg/L 6 h	EC50 48 h: > 1000 mg/L (Daphnia magna)
Triethylene glycol		LC50 96 h: 56200-63700 mg/L flow-through (Pimephales promelas) LC50 96 h: = 10000 mg/L static (Lepomis macrochirus) LC50 96 h: = 61000 mg/L flow-through (Lepomis macrochirus)	EC50 = 850 mg/L 5 min	EC50 48 h: = 42426 mg/L (Daphnia magna)

12.2. Persistence and Degradability

Not available

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12.3. Bioaccumulative Potential

Not available

12.4. Mobility in Soil

Chemical Name	Log Pow
Triethylene glycol, monobutyl ether	0.51
Diethylene glycol	-1.98

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Sewage Disposal Recommendations: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT
 14.2. In Accordance with IMDG
 14.3. In Accordance with IATA
 14.4. In Accordance with TDG
 Not regulated for transport
 Not regulated for transport
 Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

SARA Section 311/312 Hazard Classes	Acute Health Hazard
-------------------------------------	---------------------

SARA 313 This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Triethylene glycol, monobutyl ether	143-22-6	15-30	1.0
Diethylene glycol monobutyl ether	112-34-5	10-20	1.0
Ethanol, 2-(2-propoxyethoxy)-	6881-94-3	5-10	1.0

15.2. US State Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Triethylene glycol, monobutyl ether			X	Х	
Diethylene glycol			Х		X
Diethylene glycol monobutyl ether			Х	Х	

15.3. Canadian Regulations

This material is listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 05/11/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

H302	Harmful if swallowed	
H318	Causes serious eye damage	
H316	Causes Mild Skin Irritation	

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H320	Causes eye irritation		
H313	May be harmful in contact with skin		
H319	Causes serious eye irritation		
P280	Wear eye protection/face protection.		
P264	Wash face, hands, and exposed skin thoroughly after handling.		
P270	Do not eat Drink or smoke when using this product.		
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.		
P330	Rinse mouth.		
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER or doctor/physician.		
P332 +P313	If skin irritation occurs: Get medical advice/attention.		
P501	Dispose of contents/container in accordance with all local, state, national and international regulations.		

Party Responsible for the Preparation of This Document

RILCO

1320 1st Street Rock Island, IL 61201 Phone - 309 788 5631

www.rilcoinc.com This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2

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