

MATERIAL SAFETY DATA SHEET

Power Divider Oil TF 0870

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Printed: 08/11/2011
Revision: 08/08/2011
Supercedes Revision: 02/03/2010

1. Product and Company Identification

Product Code: GSC-0056-09
Product Name: Power Divider Oil TF 0870
Manufacturer/Supplier/Distributor Information
Company Name: BMW of North America, LLC
300 Chestnut Ridge Road
Woodcliff Lake, NJ 07677
Emergency Contact: 3E Company (Tracking No.: 9457) (877)472-1724
Part Number: 83 22 0 397 244

2. Composition/Information on Ingredients

Chemical Name	CAS #	Concentration	OSHA PEL	ACGIH TLV	Other Limits
1. 2,2'-(Octadec-9-enylimino)bisethanol	25307-17-9	0.1 -0.5 %	No data.	No data.	No data.
2. Calcium sulfonate	61789-86-4	0.1 -0.5 %	No data.	No data.	No data.
Chemical Name	RTECS #	OSHA STEL	OSHA CEIL	ACGIH STEL	ACGIH CEIL
1. 2,2'-(Octadec-9-enylimino)bisethanol	NA	No data.	No data.	No data.	No data.
2. Calcium sulfonate	WR7140000	No data.	No data.	No data.	No data.

3. Hazards Identification

Emergency Overview

May cause irritation to eyes and skin.

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes

Potential Health Effects (Acute and Chronic)

Inhalation: Not considered to be an inhalation hazard under normal condition of use. Inhalation of vapours or mists may cause irritation.

Skin Irritation: Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog pores of the skin resulting in disorders such as oil acne/folliculitis.

Eye Irritation: Expected to be slightly irritating.

Recommended Exposure Limits

Use standard limits for oil mists.

Signs and Symptoms Of Exposure

Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas.

Ingestion may result in nausea, vomiting and or diarrhea.

Medical Conditions Generally Aggravated By Exposure

No data available.

OSHA Hazard Classes:

HEALTH HAZARDS : Irritant

PHYSICAL HAZARDS : No Physical Hazards

TARGET ORGANS & EFFECTS: Eyes, Skin, Respiratory System

4. First Aid Measures

Emergency and First Aid Procedures

General Information: Not expected to be a health hazard when used under normal conditions.

Inhalation: No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

Skin Contact: Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

Eye Contact: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

Ingestion: In general no treatment necessary unless large quantities are swallowed, however, get medical advice.

Note to Physician

Treat symptomatically.

5. Fire Fighting Measures

Flash Pt: ca 230.00 C (446.0 F) Method Used: Pensky-Marten Closed Cup

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: > 320.00 C (608.0 F)

Fire Fighting Instructions

As in the case of all fires involving chemicals responders should wear full bunker gear including a self-contained breathing apparatus. Cool containers with water mist. Remove containers from fire area if practical.

Flammable Properties and Hazards

Material will support combustion and if ignited may create a floating fire hazard. Material may cause a slip hazard if released.

Hazardous Combustion Products

A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

Extinguishing Media

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media

Do not use water in a jet.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth, or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

7. Handling and Storage

Precautions To Be Taken in Handling

Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Precautions To Be Taken in Storing

Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. For containers or container linings, use mild steel or high density polyethylene

Other Precautions

General Precautions: Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

No respiratory protection is ordinarily required under normal conditions of use. If needed a positive pressure respirator with a particulate/organic gas cartridge is recommended.

Eye Protection

Wear safety glasses or full face shield if splashes are likely to occur.

Protective Gloves

Chemical resistant gloves made of PVC, neoprene or nitrile rubber are recommended.

Other Protective Clothing

Skin protection not ordinarily required beyond standard issue work clothes.

Engineering Controls (Ventilation etc.)

General ventilation should be adequate for normal use. Use mechanical ventilation if general ventilation is not adequate or where exposure may be expected to exceed permissible limits such as confined spaced or areas involving uses that generate heated material or the material is sprayed or mist is formed.

Work/Hygienic/Maintenance Practices

Follow standard good hygienic practices including washing after the use of this product and before eating, drinking, or smoking.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Melting Point:	No data.
Boiling Point:	> 280.00 C (536.0 F)
Autoignition Pt:	> 320.00 C (608.0 F)
Flash Pt:	ca 230.00 C (446.0 F) Method Used: Pensky-Marten Closed Cup
Specific Gravity (Water = 1):	No data.
Density:	ca828 KG/M3 at 15.0 C (59.0 F)
Vapor Pressure (vs. Air or mm Hg):	< 0.005 MMHG at 20.0 C (68.0 F)
Vapor Density (vs. Air = 1):	> 1.0 - estimated AIR=1
Evaporation Rate (vs Butyl Acetate=1):	NA
Solubility in Water:	Negligible
Percent Volatile:	No data.
Viscosity:	ca26 CST at 40.0 C (104.0 F)

Appearance and Odor

Amber liquid with a slight hydrocarbon odor.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

Extremes of temperature and direct sunlight.

Incompatibility - Materials To Avoid

Strong oxidising agents.

Hazardous Decomposition Or Byproducts

Oxides of carbon.

Hazardous Polymerization: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization

None known.

11. Toxicological Information

No data available.

Chronic Toxicological Effects

No data available.

Carcinogenicity/Other Information

Additional Information: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method

Dispose of in accordance with all Federal, State/Provincial and local laws and regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not regulated.

Additional Transport Information

No data available.

15. Regulatory Information

US EPA SARA Title III

Chemical Name	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. 2,2'-(Octadec-9-enylimino)bisethanol	25307-17-9	No	No	No	No
2. Calcium sulfonate	61789-86-4	No	No	No	No

Other US EPA or State Lists

Chemical Name	CAS #	TSCA	CA PROP.65
1. 2,2'-(Octadec-9-enylimino)bisethanol	25307-17-9	Inventory	No
2. Calcium sulfonate	61789-86-4	Inventory	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

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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:

CA PROP 65:	California Proposition 65
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International Regulatory Lists:

EPA Hazard Categories:

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

- Yes No Acute (immediate) Health Hazard
- Yes No Chronic (delayed) Health Hazard
- Yes No Fire Hazard
- Yes No Sudden Release of Pressure Hazard
- Yes No Reactive Hazard

Regulatory Information

TSCA: All ingredients in this product are listed on the TSCA Inventory or are otherwise exempt.

PROP 65: This product is not known to contain any chemical that would require disclosure under California Proposition 65.

New Jersey Right-to-Know: Highly refined mineral oil and a blend of severely hydrotreated slack wax, polyolefins and additives.

Regulatory Information Statement

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes all risk in use of the material.

16. Other Information

Company Policy or Disclaimer

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IS ACCURATE TO THE BEST KNOWLEDGE OF BMW OF NORTH AMERICA, LLC. THE DATA ON THIS SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. BMW OF NORTH AMERICA, LLC ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS DATA.

BMW Group

**POWER DIVIDER OIL
TF 0870**

P/N 83 22 0 397 244

**SAE 75W
GL-4**

CAUTION

MAY IRRITATE EYES, SKIN OR
RESPIRATORY TRACT. MAY
CAUSE AN ALLERGIC REACTION.
Carefully read additional information on back panel.

Net Contents

**1 L (33.8 FL OZ)
(1.06 U.S. QT)**

BMW Group

P/N 83 22 0 397 244

POWER DIVIDER OIL TF 0870

For use in 4 wheel and all wheel drive systems
specifying Type TF 0870 fluid.

CAUTION: MAY IRRITATE EYES, SKIN OR
RESPIRATORY TRACT. MAY CAUSE AN ALLERGIC
REACTION. Avoid contact with eyes or skin. Do not
inhale mists, fumes or spray. Keep out of reach
of children.

FIRST AID: If in eyes, flush with water for
15 minutes. If on skin, wash with soap and plenty
of water. If inhaled, remove to fresh air. If swallowed,
seek medical attention immediately. In all cases, if
symptoms develop or persist, seek medical attention.

Contains: Petroleum products, calcium sulphonate,
alkoxylated amine.

MSDS available to professional user upon request.
Don't pollute. Conserve Resources. Return used
oil to collection centers.
Made in Austria.



For 24-hour emergency assistance, call the
3E Company at 1-877-472-1724. Please provide
tracking code: 9457.

Distributed by: BMW of North America, LLC.
Woodcliff Lake, NJ 07677



83 22 0 397 244

FRONT & BACK LABEL

<p>EXCELDA Yes we do. Yes we can. Melissa Tigner - Graphic Designer (248) 587-1143 mtigner@excelda.com</p>	<p>NAME: BMW Group - Power Divider Oil TF 0870 ARTWORK #: A1000164 DATE: 7-25-11 v4 DIE SIZE: 3"w x 5"h CR: .125" COLORS: see right COATING: <input checked="" type="checkbox"/> UV <input type="checkbox"/> Laminate <input type="checkbox"/> First Draft <input checked="" type="checkbox"/> Revision</p>	<p> PMS 429  Black</p>
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