

**S**DILL



Compliant SDS for GHS: HazCom 2012 / United States; WHMIS 2015 / Canada

## SAFETY DATA SHEET

## AMSOIL DOT 3 and DOT 4 Synthetic Brake Fluid

Section 1. Identit	Date Version	08/15/2016 1	
GHS product identifier Code	: AMSOIL DOT 3 and DOT 4 Synthetic Brake Fluid : BFLV		
Product type	: Liquid.		
Identified uses	: Brake fluid. Not to be misted.		
Manufacturer	: AMSOIL INC. One AMSOIL Center Superior, WI 54880 Tel: +1 715-392-7101		
Initial Supplier (Canada)	: AMSOIL INC. Bordner, Ladner, Gervais Scotia Plaza, 40 King St W Toronto, ON, Canada M5H 3Y4 Tel: +1 416-367-6547		
Emergency telephone number (with hours of operation)	: CHEMTREC: Within USA and Canada: 1-800-424-9300; Outside USA and Canada: +1 703-741-5970 (collect calls (24/7)	accepted)	

# Section 2. Hazards identification

OSHA/HCS status	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	:	TOXIC TO REPRODUCTION (Unborn child) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3
GHS label elements		
Hazard pictograms	:	
Signal word		Warning
Signal word		Warning
Hazard statements	÷	Suspected of damaging the unborn child. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid release to the environment.
Response	:	IF exposed or concerned: Get medical attention.

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(HHNOC)

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Storage	: Store locked up.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise cla	ssified (HNOC)
Physical hazards not otherwise classified (PHNOC)	: None known.
Health hazards not otherwise classified	: None known.

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

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CAS number/other ide	<u>ntifiers</u>		
CAS number	: Not applicable.		
Product code	: BFLV		
Ingredient name		%	CAS number
2-(2-Methoxyethoxy)ethanol 2,6-di-tert-Butyl-p-cresol		0.1 - 1 0.1 - 1	111-77-3 128-37-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact	<ul> <li>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 20 minutes. Get medical attention if irritation occurs.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed

Potential acute health effect	<u>cts</u>	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symp	tom	<u>IS</u>
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
ndication of immediate med	lica	attention and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	÷ .	No action shall be taken involving any personal risk or without suitable training

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	1	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	1	None known.

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Specific hazards arising from the chemical	: This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: No special protection is required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protect	ive equipment and emergency procedures
For non-emergency personnel	: Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for co	ntainment and cleaning up
Spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

## Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

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Avoid contact with used product. Do not reuse container.

Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters Occupational exposure limits United States Ingredient name Exposure limits** 2,6-di-tert-Butyl-p-cresol NIOSH REL (United States, 10/2013). TWA: 10 mg/m<sup>3</sup> 10 hours. ACGIH TLV (United States, 3/2015). TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction and vapor Canada Occupational exposure limits None. **Appropriate engineering** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, controls local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. : Emissions from ventilation or work process equipment should be checked to ensure **Environmental exposure** controls they comply with the requirements of environmental protection legislation. Individual protection measures : Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures** eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. **Eye/face protection** Safety evewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Skin protection Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Colorless to amber.	
Odor	: Mild.	
Odor threshold	: Not available.	
рН	: 7.2	
Melting point	: -50°C (-58°F)	
Boiling point	: >265°C (>509°F)	
Flash point	: Closed cup: >115°C (>239°F)	
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: 1.0672	
Solubility	: Not available.	
Partition coefficient: n- octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Viscosity	: Kinematic: 8.17 cm <sup>2</sup> /s (817 cSt) (-40°C	2)
Volatility	: Not available.	

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.

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Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

Acute toxicity							
Product/ingredient name	Result	S	pecies	Dos	se	Exp	osure
2,6-di-tert-Butyl-p-cresol	LD50 Oral	R	at	890 m	ng/kg	-	
Irritation/Corrosion							
Product/ingredient name	Result	Specie	s Sco	re	Exposure		Observation
2,6-di-tert-Butyl-p-cresol	Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	-		24 hours 100 m 48 hours 500 m		-
Sensitization							
There is no data available.							
Carcinogenicity							
There is no data available.							
Specific target organ toxicit	<u>y (single exposure)</u>						
There is no data available.							
Specific target organ toxicit	<u>y (repeated exposure)</u>						
There is no data available.							
Aspiration hazard							
There is no data available.							
Information on the likely routes of exposure	: Dermal contact. Eye c	ontact. Inhal	ation. Ingest	tion.			
Potential acute health effect	<u>s</u>						
Eye contact	: No known significant e	effects or crit	ical hazards				
Inhalation	: No known significant e	effects or crit	ical hazards				
Skin contact	: No known significant e	effects or crit	ical hazards				
Ingestion	: No known significant e	effects or crit	ical hazards				
Symptoms related to the phy	vsical, chemical and toxic	cological ch	<u>aracteristic</u>	<u>s</u>			
Eye contact	: No known significant e	-					

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Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effect	and also chronic effects from short and long term exp	<u>osure</u>
<u>Short term exposure</u>		
Potential immediate effects	No known significant effects or critical hazards.	
Potential delayed effects	No known significant effects or critical hazards.	
<u>Long term exposure</u>		
Potential immediate effects	No known significant effects or critical hazards.	
Potential delayed effects	No known significant effects or critical hazards.	
Potential chronic health effe	<u>5</u>	
General	No known significant effects or critical hazards.	
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	No known significant effects or critical hazards.	
Teratogenicity	Suspected of damaging the unborn child.	
Developmental effects	No known significant effects or critical hazards.	
Fertility effects	No known significant effects or critical hazards.	

## Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

# Section 12. Ecological information

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-	-		

Product/ingredient name	Result	Species	Exposure
2-(2-Methoxyethoxy)ethanol	Acute EC50 >930 ppm Fresh water Acute LC50 7500000 µg/l Fresh water	Daphnia - Daphnia magna Fish - Lepomis macrochirus	48 hours 96 hours
2,6-di-tert-Butyl-p-cresol	Acute EC50 1440 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours

#### Persistence and degradability

There is no data available.

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#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2-(2-Methoxyethoxy)ethanol 2,6-di-tert-Butyl-p-cresol	-0.47 5.1	- 330 to 1800	low high
Mobility in soil			
Soil/water partition coefficient (Koc)	: There is no data available.		

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

# Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	DOT	TDG	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

**AERG** : Not applicable.

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Special precautions for user	:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to Annex II of MARPOL and the IBC Code	:	Not available.

# Section 15. Regulatory information

J.S. Federal regulations Clean Air Act Section 112	: United States inven : Listed	tory (TSC	A 8b): All con	nponents are	isted or exemp	ted.
(b) Hazardous Air Pollutants (HAPs)	: Listed					
Clean Air Act Section 602 Class I Substances	: Not listed					
Clean Air Act Section 602 Class II Substances	: Not listed					
DEA List I Chemicals (Precursor Chemicals)	: Not listed					
DEA List II Chemicals (Essential Chemicals)	: Not listed					
SARA 302/304						
Composition/information	on ingredients					
No products were found.						
SARA 304 RQ	: Not applicable.					
SARA 311/312						
Classification	: Delayed (chronic) he	alth hazar	ď			
Composition/information	on ingredients					
Name		Fire hazard	Sudden release of	Reactive	Immediate (acute)	Delayed (chronic)

		Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
(	Yes.	No.	No.	No.	Yes.
	No.	No.	No.	Yes.	No.

#### SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	2-(2-(2-Methoxyethoxy)ethoxy)ethanol	112-35-6	40 - 60
Supplier notification	2-(2-(2-Methoxyethoxy)ethoxy)ethanol	112-35-6	40 - 60

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

#### **Massachusetts**

: None of the components are listed.

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#### **New York**

- : None of the components are listed.
- **New Jersey**
- : The following components are listed: 2-(2-(2-Methoxyethoxy)ethoxy)ethanol
- **Pennsylvania**
- : The following components are listed: 2-(2-(2-Methoxyethoxy)ethoxy)ethanol

#### California Prop. 65

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	· · · · ·		Maximum acceptable dosage level
2-Methoxyethanol	No.	Yes.	No.	63 μg/day (ingestion)

#### **Canadian lists**

Canadian	NPRI

: None of the components are listed.

**CEPA Toxic substances** 

: None of the components are listed.

**Canada inventory** 

: All components are listed or exempted.

# Section 16. Other information

<u>History</u>	
Date of issue mm/dd/yyyy	: 08/15/2016
Version	: 1
Prepared by	: AMSOIL INC.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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