

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Name:** STARFIRE DOT 4 BRAKE FLUID  
**Product Code:** SFBF0126

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use:** Brake Fluid  
**Recommended restrictions:** Not applicable

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer:** Coolants Plus, Inc.  
2570 Van Hook Ave.  
Hamilton, OH. 45015

**Information Phone:** 1-888-258-8723  
**E-mail:**

### 1.4. Emergency telephone number

**Emergency phone number:** CHEMTREC: +1 (800) 424-9300  
International: +01 (703) 527-3887

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Serious Eye Damage/Eye Irritation Category 1  
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2

### 2.2. Label elements

#### GHS Hazard Symbols



#### Signal Word

Danger

#### Hazard Statements

H318 - Causes serious eye damage.  
H373 - May cause damage to organs through prolonged or repeated exposure.

#### Precautionary Statements

##### Prevention

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

##### Response

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/doctor/....  
P314 - Get medical advice/attention if you feel unwell.

##### Disposal

P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Other hazards

#### Hazards not otherwise classified:

No data available.

#### Unknown acute toxicity (GHS-US)

**Unknown Acute Toxicity (Gas):** 100 % of the mixture consists of ingredient(s) of unknown toxicity.

# SAFETY DATA SHEET

## SECTION 3: Composition/information on ingredients

Chemical Name	%	CAS #	GHS Classification
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	7 - 13	143-22-6	Eye Dam. 1; H318
Diethylene glycol	1 - 5	111-46-6	Acute Tox. 4; H302 STOT RE 2; H373

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.
<b>Eyes</b>	Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.
<b>Skin Contact</b>	Wash with soap and water.
<b>Ingestion</b>	Seek medical attention immediately or call the Poison control center. Do not induce vomiting. If patient is fully conscious, give up to two glasses of water. Provide medical care provider with this SDS. Contains a harmful substance. Seek medical help immediately and contact a poison information service. Drink two glasses of water or milk to dilute.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Headache, Dizziness, Nausea, Impaired balance, Drowsiness, Systemic effects similar to those resulting from ingestion
-----------------	---

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to Doctor</b>	No additional first aid information available.
-----------------------	--

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable and Unsuitable Extinguishing Media:</b>	Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.
---	---

### 5.2. Special hazards arising from the substance or mixture

<b>Fire and/or Explosion Hazards</b>	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.
--------------------------------------	--

### 5.3. Advice for firefighters

<b>Fire Fighting Methods and Protection</b>	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.
<b>Hazardous Combustion Products</b>	Carbon dioxide, Carbon monoxide

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**General Measures:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

### 6.2. Environmental precautions

No data available.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up:** Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center.

### 6.4. Reference to other sections

Follow all protective equipment recommendations provided in Section 8.

# SAFETY DATA SHEET

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool dry place. Isolate from incompatible materials.

### Incompatible materials

See Section 10.

### 7.3. Specific end use(s)

Brake Fluid

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Chemical Name	Occupational Exposure Limits	Value
None.	OSHA PEL	
None.	IDLH	
None.	OSHA PEL-Skin Notation	

### 8.2. Exposure controls

#### Engineering Measures

No engineering controls are likely to be required to maintain operator comfort under normal conditions of use. Ventilation is required to maintain worker comfort and ensure employees are not overexposed.

#### Respiratory Protection

No respiratory protection required under normal conditions of use.

#### Respirator Type(s)

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

#### Eye Protection

Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

#### Skin Protection

Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

#### Gloves

Butyl rubber, Polyethylene

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical State	Liquid
Color	Colorless to pale amber
Odor	Mild
Odor threshold	Not determined
pH	8.6
Freezing point	Not determined
Boiling Point	275
Flash Point	121
Flash Point Method	ASTM D93
Evaporation Rate	Not determined
Upper Flammable/Explosive Limit, % in air	Not established
Lower Flammable/Explosive Limit, % in air	Not established
Flammability (solid, gas)	Not applicable
Vapor pressure	Not determined
Vapor Density	Not determined
Relative Density	1.07
Solubility in Water	Complete; 100%

# SAFETY DATA SHEET

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Octanol/Water Partition Coefficient Not determined

Coefficient

Autoignition Temperature 310

Decomposition Temperature 305

### 9.2. Other information

Volatiles, % by weight 0.000000

## SECTION 10: Stability and reactivity

10.1. Reactivity No data available.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions Hazardous polymerization will not occur.

10.4. Conditions to avoid Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.

10.5. Incompatible materials Strong oxidizing agents, Heat, sparks, or other sources of ignition.

10.6. Hazardous decomposition products Carbon dioxide, Carbon monoxide

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Ingestion Toxicity No hazard in normal industrial use. Estimated to be > 5.0 g/kg.

Skin Contact Likely to be non-irritating to skin based on animal data. No hazard in normal industrial use.

Absorption Likely to be practically non-toxic based on animal data.

Inhalation Toxicity No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.

Eye Contact This material is likely to be severely irritating to eyes based on animal data. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Sensitization Non-hazardous under Respiratory Sensitization category. No data available to indicate product or components may be a skin sensitizer.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Carcinogenicity Not a carcinogen according to NTP, IARC, or OSHA.

Reproductive and Developmental Toxicity No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Specific target organ toxicity-Single exposure Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.

Specific target organ toxicity-Repeated exposure H373 - May cause damage to organs through prolonged or repeated exposure.

Long-Term (Chronic) Health Effects Systemic effects similar to those resulting from ingestion, Drowsiness, Impaired balance, Nausea, Dizziness, Headache

Aspiration toxicity Non-hazardous under Aspiration category.

Other information No data available.

### Agents Classified by IARC Monographs

Not applicable IARC Group 1

Not applicable IARC Group 2A

Not applicable IARC Group 2B

### National Toxicity Program (NTP) Status

Not applicable Known Human Carcinogen

Not applicable Reasonably Anticipated To Be A Human Carcinogen

# SAFETY DATA SHEET

## SECTION 12: Ecological information

### 12.1. Toxicity

**Acute Aquatic ecotoxicity:** Non-hazardous under Aquatic Acute Environment category.

**Chronic Aquatic ecotoxicity:** Non-hazardous under Aquatic Chronic Environment category.

### 12.2. Persistence and degradability

Biodegrades at a moderate rate.

### 12.3. Bioaccumulative potential

Bioconcentration is not expected to occur.

### 12.4. Mobility in soil

This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

Not determined

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal Methods

Dispose of according to Federal, State, Local, or Provincial regulations.

#### Waste Disposal Code(s)

#### Waste Description for Spent Product

Spent or discarded material is not expected to be a hazardous waste.

#### Contaminated packaging:

## SECTION 14: Transport information

**DOT Basic Description** Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

## SECTION 15: Regulatory information

### Chemical Inventories

**TSCA Status** All components of this material are on the US TSCA Inventory or are exempt.

**U.S. State Restrictions:** Not applicable

**WHMIS:** D2B

Chemical Name	Regulation	CAS #	%
None.	CERCLA		
None.	SARA 313		
None.	SARA EHS		
None.	TSCA 12b		

### U.S. State Regulations

Chemical Name	Regulation	CAS #	%
None.	California Prop 65- Cancer		
None.	California Prop 65- Dev. Toxicity		
None.	California Prop 65- Reprod -fem		
None.	California Prop 65- Reprod-male		
None.	Massachusetts RTK List		
None.	New Jersey RTK List		
Ethanol, 2,2'-oxybis-	Pennsylvania RTK List	111-46-6	1 - 5
None.	Rhode Island RTK List		
Diethylene glycol	Minnesota Hazardous	111-46-6	1 - 5

# SAFETY DATA SHEET

Chemical Name	Regulation Substance List	CAS #	%		
	<b>HMIS Ratings:</b>	<b>NFPA Ratings:</b>			
	Health: 2	Health: 2			
	Fire: 1	Fire: 1			
	Reactivity: 0	Reactivity: 0			
	PPE: B				
KEY:	0 - Least	1 - Slight	2 - Moderate	3 - High	4 - Extreme

## SECTION 16: Other information

<b>Revision Date</b>	5/4/2015 11:27:20 AM
<b>Supersedes:</b>	4/20/2015 2:43:29 PM
<b>References</b>	ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association CFR: Code of Federal Regulations DOT: United States Department of Transportation GHS: Globally Harmonized System of Classification and Labeling of Chemicals HMIS: Hazardous Materials Identification System IARC: International Agency for Research on Cancer IATA: International Air Transportation Association IDLH: Immediately Dangerous to Life or Health IMDG: International Maritime Dangerous Goods NFPA: National Fire Protection Association NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration PEL: Permissible Exposure Limit RTK: Right-to-Know SARA: Superfund Amendments and Reauthorization Act STEL: Short-term Exposure Limit TLV: Threshold limit value TSCA: Toxic Substances Control Act TWA: Time weighted average UN: United Nations WHMIS: Workplace Hazardous Materials Information System

**Disclaimer** This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.