

SAFETY DATA SHEET

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

1.1. Product identifier

Product Name: STARFIRE DOT 3 BRAKE FLUID
Product Code: SF20BF6P

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)-	15 - 40	143-22-6	Eye Dam. 1; H318
Diethylene glycol	10 - 30	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

Inhalation	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.
Eyes	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.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion	No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.

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

Symptoms Not determined

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

Note to Doctor No additional first aid information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable and Unsuitable Extinguishing Media: 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

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

5.3. Advice for firefighters

Fire Fighting Methods and Protection Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

Hazardous Combustion Products Carbon monoxide, Carbon dioxide, Nitrogen containing gases

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General Measures: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

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. Gather and store in a sealed container pending a waste disposal evaluation.

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

Mildly irritating material. Avoid unnecessary exposure.

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.

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

Where use can result in skin contact, practice good personal hygiene and wear impervious gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

Gloves

Butyl rubber, Natural latex,, Polyvinyl chloride

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Color	Colorless to pale yellow
Odor	Strong
Odor threshold	Not determined
pH	8.6
Freezing point	Not determined
Boiling Point	260
Flash Point	138
Flash Point Method	ASTM D 93
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	6
Relative Density	1.04
Solubility in Water	Complete; 100%
Octanol/Water Partition	Not determined

SAFETY DATA SHEET

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Coefficient

Autoignition Temperature Not determined

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. Dried product residue (can act as an oxidizer). Impact or high temperatures can cause decomposition

10.5. Incompatible materials Strong acids, Strong oxidizing agents

10.6. Hazardous decomposition products Aldehydes

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Ingestion Toxicity Although this product has a low order of acute oral toxicity, aspiration of minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death. Estimated to be > 5.0 g/kg.

Skin Contact This material is estimated to be slightly irritating (Primary Irritation Index is 0.5 - 3.0 [rabbits]). Can cause minor skin irritation, defatting, and dermatitis.

Absorption Estimated to be > 5.0 g/kg; practically non-toxic

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.

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:

Recycle containers whenever possible.

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	10 - 30

SAFETY DATA SHEET

Chemical Name	Regulation	CAS #	%
None.	Rhode Island RTK List		
Diethylene glycol	Minnesota Hazardous Substance List	111-46-6	10 - 30

HMIS Ratings:

Health: 3
Fire: 1
Reactivity: 0
PPE: B

NFPA Ratings:

Health: 3
Fire: 1
Reactivity: 0

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16: Other information

Revision Date

5/14/2015 3:19:08 PM

Supersedes:

5/4/2015 11:18:21 AM

References

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.