

Section 1. IDENTIFICATION:

DOT-5
SILICONE BRAKE FLUID
Product Code: SBF-400

ECO USA
One Bridge Plaza North, Suite 275
Fort Lee, NJ 07024 USA

Emergency Telephone Number: (800) 535-5053
INFOTRAC
Date Prepared: January 1, 2023

Section 2. Hazard(s) Identification

Tarriff Code: 38190010

EAR 99

Tributyl Phosphate

126-73-8

Classification of mixture:

Carcinogenicity, Category 2
Eye irritation, Category 2A
Skin irritation, Category 2A

Hazard Pictograms:



Signal Word

WARNING

Hazard Statements:

H303: May be harmful if swallowed.
H315 + H320: Causes eye and skin irritation.
H351: Suspected of causing cancer.

Precautionary Statements:

P202: Do not handle until all safety precautions have been read and understood.
P273: Avoid release to the environment.
P281: Use personal protective equipment as required.
P301 + P331 + P313: IF SWALLOWED: Do NOT induce vomiting. Get medical advice/attention.
P305 + P351 + P338 P337 + P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, get medical advice/attention.
P302 + P350 + P333 + P313: IF ON SKIN: Wash with soap and water. If skin irritation or a rash occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P405: Store locked up.
P501: Dispose of contents/container to an approved waste disposal plant.

Potential Health Effects (Not Classified as Hazardous)

Eye	May cause irritation. (H320)
Ingestion	Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea. (H303)
Inhalation	Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation. (H335)
Skin Contact	May cause irritation. (H317)

HMIS/NFPA Codes

Health: 1 Fire: 1 Reactivity: 0

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Section 3. Composition Information on Ingredients

<u>Chemical Name</u>	<u>% Content</u>	<u>CAS</u>
Polydimethylsiloxane	90 – 100%	63148-62-9
Tributyl Phosphate	<0-1%	126-73-8
Diocetyl Sebacate	<0-5%	122-62-3

Section 4. FIRST AID MEASURES

Eyes	Immediately flush eyes with plenty of water for at least 30 minutes and get medical attention.
Ingestion	If swallowed, drink plenty of water, DO NOT induce vomiting. Immediately call a doctor. Do not give liquids to an unconscious or convulsing person.
Inhalation	If adverse effects occur, remove to uncontaminated area. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Skin	Wash exposed skin with soap and water. Launder contaminated clothing before reuse.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

Agents approved for Class B hazards:

- Dry chemical
- Carbon dioxide
- Foam

Fire Fighting Equipment

Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

None Identified.

Section 6. ACCIDENTAL RELEASE MEASURES

Action to take for spills/leaks

Prevent spreading by diking, ditching, or absorbing on inert materials. Keep out of sewers and waterways.

Section 7. HANDLING STORAGE

Handling:

Do not breathe vapors. Avoid ingestion.

Storage

Store at temperatures between 10°C and 50°C (50°F and 122°F).

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Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure guidelines

	ACGIH (TLV)	OSHA (PEL)	CAS
Tributyl phosphate	0.2 mg/m ³	5 mg/m ³ PEL	126-73-8

Eye protection

Safety glasses, chemical goggles, or face shields recommended to prevent contact.

Skin protection

Wear clothing and gloves that cannot be penetrated by chemicals or oil.

Ventilation

Use with adequate ventilation. Avoid breathing vapor.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Violet Viscous Fluid
Odor:	Odorless
Equilibrium reflux boiling point:	> 260°C (500°F)
Wet boiling point:	> 207°C (404.6°F)
Flash point (COC):	> 204°C (399.2°F)
Fire point (COC):	Not determined
Flammability Classification:	Not flammable
Specific gravity at 15.6°C (60°F):	0.94
Viscosity at -55°C (-67°F):	< 900 cSt
Viscosity at 100°C (212°F):	> 1.3 cSt
Vapor Pressure at (25°C)	<0.05 mmHg
VOC (%)	<1%

Section 10. STABILITY AND REACTIVITY

Conditions to avoid	Heat and open flame.
Dangerous reactions	No dangerous reactions known.
Hazardous polymerization	Will not occur
Hazardous decomposition products	Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.
Materials to avoid	Avoid contact with strong oxidizing agents.
Stability	Stable

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Section 11 TOXICOLOGICAL INFORMATION

	USA	REACH
Acute Toxicity	Harmful if swallowed	H302 Harmful if swallowed
Eye irritation (rabbit)	Mild irritant	H315 Causes Irritation
Inhalation LD50	No data available.	No data available.
Diethyl sebacate Oral LD50, rat	9,500 mg/kg	
Tributyl phosphate Dermal LD50, rabbit	> 4,640 mg/kg	H315 causes Irritation
Tributyl phosphate Oral LD50, rat	3,160 mg/kg	
Skin irritation (rabbit)	No data available.	H315 causes Irritation
Sensitization	Testing not conducted. See other Toxicity Data.	
Carcinogenicity (Tributyl Phosphate)	Not classified as a carcinogen by USA-OSHA, ECHA Above 1%	
Carcinogenicity (Tributyl Phosphate)REACH	Class 2 H351 Suspected of Causing Cancer	

Reproductive toxicity (Tributyl Phosphate) In a two generation reproductive toxicity study, rats were dosed with Tributyl phosphate at concentrations of 15, 53 or 225 mg/kg/day. There was no adverse effect on fertility or reproduction at any dose. The NOEL was greater than 3000 parts per million.

Other

Tributyl phosphate is a weak cholinesterase inhibitor.

Section 12 ECOLOGICAL INFORMATION

Ecological data is not available.

Section 13 DISPOSABLE INFORMATION

Disposal must be in accordance with applicable federal, state, or local regulations.

Do not allow product to reach ground water, water course, or sewage systems.

This unused material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable, or reactive according to U.S. EPA definitions (40 CFR Subpart C). This material could also become hazardous waste if it is mixed with or comes into contact with a listed hazardous waste. If it is a hazardous waste, regulations in 40 CFR 262-266, 268, 270, and 279 may apply.

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Section 14 TRANSPORT INFORMATION

U.S. Dept. of Transportation Shipping Name	Not regulated.
Canadian Transportation of Dangerous Goods Shipping Name	Not regulated.
European Rail/Road (ADR/RID) Shipping Name	Not regulated.
Air (ICAO/IATA) Shipping Name	Not regulated.
Sea (IMO/IMDG)	Not regulated.

Section 15. REGULATORY INFORMATION

United States Regulatory Information**California (Proposition 65)**

This product does not contain any of the substances known to the State of California to cause cancer, birth defects, or reproductive harm.

CERCLA Reportable Quantity This product is not reportable under 40 CFR Part 302.4.

Environmental Protection Agency None of the ingredients are listed

National Toxicology Program (NTP) None of the ingredients are listed.

OSHA Hazard Communication Standard Not hazardous per 29 CFR 1910.1200(d).

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355)

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370)

Hazardous categories for this product are: Acute=no; Chronic=no; Fire=no; Pressure=no; Reactive=no.

SARA Title III Section 313 (40 CFR Part 372)

This product is not regulated under Section 313 of SARA and 40 CFR Part 372.

U.S. Inventory (TSCA) Listed on inventory.

International Regulatory Information:

Australia Inventory (AICS) Listed on inventory.

Canada Inventory (DSL) All of the ingredients are listed.

Canada (WHMIS) Not a controlled Product under Canada's Workplace Hazardous Material Information System.

China (CICS) None of the ingredients are listed.

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EC Inventory (EINECS/ELINCS) In compliance.

International Agency for Research on Cancer (IARC) None of the ingredients are listed.

Japan Inventory (MITI) Listed on inventory.

Korea Inventory (ECL) Listed on inventory.

Philippine Inventory (PICCS) Not determined

European Chemical Agency (ECHA) Reach (EC) No 1907/2006(2015/830). Compliance

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Section 16 OTHER INFORMATION
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NFPA: HEALTH HAZARD (0) FLAMMABILITY (1) INSTABILITY (0) PHYSICAL AND CHEMICAL HAZARDS (-)

HMIS: HEALTH HAZARD (1) FLAMMABILITY (1) PHYSICAL HAZARD (0) PERSONAL PROTECTION (X)

Product use: Lubrication and corrosion protection of hydraulic brake systems.

This product is in compliance with European Chemical Agency (ECHA) Reach (EC) No 1907/2006

SILICONE BRAKE FLUID CAS #63-148-62-9 Tarriff Code: 38190010 EAR 99

FREIGHT CLASSIFICATION #30040 Brake Fluid other than petroleum Class 65

PRODUCT NON-HAZARDOUS-NOT REGULATED.

ECO USA DOT-5 Silicone Brake Fluid Meets or exceeds MIL-PRF-46176B, J1705 & FMVSS 116 (CMVSS 116) standards.

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