SAFETY DATA SHEET

DOT-5 Silicone Brake Fluid

Data Prepared: May 1st, 2022

Section 1. Product Identification

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Product name : **DOT-5 Silicone Brake Fluid**
Product code : **DOT-5**

Manufacturer or supplier details
Company name of supplier : **Clearco Products Co Inc.**
Address : **15 York Rd.**
Willow Grove, PA 19090
U.S.A.
Telephone: 215 366-7860

Emergency Telephone : **CHEM TEL: 1-800-255-3924 (DOMESTIC)**
+01-813-248-0585 (INTERNATIONAL)

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Section 2. HAZARD IDENTIFICATION

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Not Classified as Hazardous
Potential Health Effects

Eye **May cause irritation.**
Ingestion **Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea.**
Inhalation **Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.**
Skin Contact **May cause irritation.**
HMIS/NFPA Codes

Health: 1 **Fire: 1** **Reactivity: 0**

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Section 3. COMPOSITION

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Chemical Name	% Content	CAS
Polydimethylsiloxane	95 – 100%	63148-62-9
Tributyl Phosphate	<1-5%	126-73-8
Dioctyl Sebacate	<1-5%	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.**

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Section 5. Fire Fighting Measures

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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.

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Section 6. ACCIDENTAL RELEASE MEASURES

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Action to take for spills/leaks

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

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Section 7. HANDLING STORAGE

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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

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Exposure guidelines

ACGIH (TLV)	OSHA (PEL)	CAS	
Tributyl phosphate	0.2 mg/m³	5 mg/m³ 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**

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**

Section 11 TOXICOLOGICAL & ECOLOGICAL 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.**
Dioctyl 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.		
Safety Data Sheet		

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.

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Section 12 ECOLOGICAL INFORMATION

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Ecological data is not available.

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Section 13 DISPOSABLE INFORMATION

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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

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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.**

SILICONE BRAKE FLUID -MIL-PRF-46176B QPL:SBF1030 - Product Code: J-1705

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Section 15 . REGULATORY INFORMATION

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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.**

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. Compliance

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Section 16 OTHER INFORMATION

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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

FREIGHT CLASSIFICATION #30040 Brake Fluid other than petroleum Class 65

PRODUCT NON-HAZARDOUS-NOT REGULATED.

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

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

HMIS Hazard Classification:
Health: 1
Fire: 1
Reactivity: 0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.