

Material Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name:
Heavy Duty DOT 5 Silicon Brake Fluid

Product Code:
I.GABF

Manufacturer:
Intercontinental Lubricants Corp./
Spectro Oils of America
993 Federal Road
Brookfield, CT 06804
(203) 775-1291
Fax: (203) 775-8720

MSDS Date of Preparation: 12/27/11

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a purple liquid with no odor. May cause eye and skin irritation. Accidental ingestion of large amounts may cause gastrointestinal effects with nausea vomiting and diarrhea.

SECTION 2 PRODUCT COMPONENTS

INGREDIENTS

Tributyl Phosphate
Dimethylpolysiloxane

CAS#.

126-73-8
63148-62-9

WT.%

1-5%
90-100%

SECTION 4 EMERGENCY and FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eye with water for at least 15 minutes while lifting the upper and lower lids. Get medical attention if irritation develops.

SKIN CONTACT: Wash thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops.

INHALATION: Remove victim to fresh air if ill effects occur and get medical attention.

INGESTION: Rinse mouth out with water. Get medical attention by calling a Poison Control Center or hospital emergency department.

SECTION 5 FIRE and EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion may produce carbon and silicone oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate protective equipment. Wipe, scrape or soak up with inert material and place in a container for disposal. Clean slippery residue by washing with mild detergent and water.

SECTION 7 HANDLING and STORAGE

Avoid eye and contact. Wash thoroughly after handling. Use only with adequate ventilation. Do not eat, drink or smoke in the work area. Remove contaminated clothing and launder before re-use. Discard contaminated shoes and other items that cannot be laundered.

Store at room temperature in tightly closed containers.

Empty containers retain product residues. Do not cut, weld, braze, etc. on or near empty containers. Follow all MSDS precautions in handling empty containers.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

INGREDIENTS	CAS#.	EXPOSURE LIMITS
Tributyl Phosphate	126-73-8	5 mg/m3 TWA OSHA PEL 2.2 mg/m3 TWA ACGIH TLV
Dimethylpolysiloxane	63148-62-9	None Established

RESPIRATORY PROTECTION: None needed under normal use conditions. If the exposure limit is exceeded use a NIOSH approved respirator with a particulate filter (R or P series). For higher concentrations a NIOSH approved supplied air respirator (with escape bottle if required) or self-contained breathing apparatus may be required. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

VENTILATION: Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.

GLOVES: Chemical resistant gloves such as rubber are recommended where prolonged or repeated skin contact is likely.

EYE PROTECTION: Safety glasses or goggles recommended.

OTHER PROTECTIVE EQUIPMENT: Impervious apron, boots and other clothing are recommended if needed to avoid prolonged/repeated skin contact. Suitable washing facilities should be available.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Purple liquid, no odor.

BOILING POINT (@ 760 mmHg): Not available

SPECIFIC GRAVITY (H₂O=1): 0.958 @ 25°C

VAPOR PRESSURE (@ 20 C mm Hg): Not available

EVAPORATION RATE : (Butyl Acetate=1): Not available

FLASH POINT: 402°F/205.5°C CC

FLAMMABLE LIMITS: (vol % in air) Not established

MELTING POINT: Not available

VISCOSITY: 42.7 mm/s

VAPOR DENSITY (AIR=1): Not available

COEFFICIENT OF WATER/OIL: Not available

AUTOIGNITION TEMPERATURE: Not determined

SOLUBILITY: Insoluble

SECTION 10 STABILITY and REACTIVITY

STABILITY: This material is stable.

CONDITIONS TO AVOID: Avoid excessive heat and open flames

INCOMPATIBILITY: Strong acids, bases and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon monoxide, carbon dioxide, silicone oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

INHALATION: Vapors are unlikely due to physical properties.

SKIN CONTACT: Skin contact may cause irritation. Tributyl phosphate may be absorbed through the skin.

EYE CONTACT: May cause mild irritation.

INGESTION: Swallowing large amounts may cause gastrointestinal effects including nausea, vomiting and diarrhea.

CHRONIC EFFECTS OF OVEREXPOSURE: Prolonged or repeated contact may cause central nervous system injury and damage to the kidneys.

CARCINOGENICITY: None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACHIH or OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Available information suggests that overexposure is unlikely to aggravate existing medical conditions.

ACUTE TOXICITY VALUES: Tributyl Phosphate: Oral rat LD50 3000 mg/kg
Polydimethylsiloxane: Oral rat LD50 5000 mg/kg

None of the components have been found to be mutagenic.

None of the components are known to cause sensitization in animals or humans.

None of the components are known to cause adverse reproductive effects or teratogenic effects in animals or humans.

SECTION 12: ECOLOGICAL INFORMATION

There is no ecotoxicity data available for this product at this time.

SECTION 13: DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Dispose in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT SHIPPING DESCRIPTION: Not Regulated
DOT HAZARD CLASSIFICATION: None
DOT LABELS REQUIRED (49CFR172.101): None
UN NUMBER: None

SECTION 15: REGULATORY INFORMATION

OSHA HAZARD CLASSIFICATION: Target organ effects.

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 HAZARD CLASSIFICATION: Chronic health

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:
None

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements, however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

WHMIS CLASSIFICATION: Class D2, Subdivision B: Toxic material causing other chronic effects.

EU CLASSIFICATION: Not a dangerous preparation.

EU RISK AND SAFETY PHRASES: None

TOXIC SUBSTANCES CONTROL ACT: All of the components of this product are listed on the TSCA inventory.

CALIFORNIA PROPOSITION 65: This product is not known to contain any chemicals which are known to the State of California to cause cancer or reproductive harm.

SECTION 16: OTHER INFORMATION

NFPA Rating: Health: 1 Fire: 1 Reactivity: 0