SDS# 2005-C
Product Code: SGBF
Date of Preparation: 10/02/17

Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: SPECTRO® Golden Supreme DOT 4 Brake Fluid

Product Code: SGBF

Product Use: Brake Fluid
Restrictions on Use: Use only as directed

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

Emergency Phone (Infotrac): 1 (800) 535-5053 (US and Canada)
1 (352) 323-3500 (International)

SDS Date of Preparation: 10/02/17

SECTION 2: HAZARDS IDENTIFICATION

Classification:

Physical	Health
Not Hazardous	Not Hazardous

Label Elements:
Not required

SECTION 3 PRODUCT COMPONENTS

Chemical Name	CAS#	Concentration
Triethylene Glycol Monomethyl Ether Borate Ester	Proprietary	40-70%
Triethylene Glycol Monomethyl Ether	112-35-6	15-50%
Tetraethylene Glycol Monomethyl Ether	23783-42-8	1-5%
Diethylene Glycol Monomethyl Ether	111-77-3	<1%
Monoethanolamine	141-43-5	<1%

The specific identity and/or exact percentage has been withheld as a trade secret.

SECTION 4 EMERGENCY and FIRST AID PROCEDURES

Eye Contact: Flush eye with water for several minutes holding the eyelids apart. Get medical attention if irritation persists.

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 irritation develops or breathing is difficult, get medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconsciousness person. Get medical attention.

Most important symptoms/effects, acute and delayed: May cause mild eye irritation. Prolonged skin contact may cause irritation or drying of the skin. Excessive inhalation of vapor or mists may cause upper respiratory tract irritation and central nervous system effects. Swallowing may cause nausea, vomiting and diarrhea.

Indication of immediate medical attention and special treatment, if necessary: None required under normal conditions of use.

SECTION 5 FIRE and EXPLOSION HAZARD DATA

Suitable extinguishing media: Use water fog, foam, carbon dioxide or dry chemical to extinguish. Do not use a direct stream of water.
Specific hazards arising from the chemical: Not classified as a combustible liquid but will burn under fire conditions. At elevated temperatures containers may rupture. Use of large amounts of water may cause product to float and spread fire. Combustion may produce carbon and nitrogen oxides and unidentified organic and inorganic compounds.
Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and a NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water spray or stream.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective equipment. Wash thoroughly after handling.
Environmental hazards: Avoid release into the environment. Report spill as required by local and federal regulations.
Methods and materials for containment and cleaning up: Dike spill and collect with an inert absorbent and place into closable containers for disposal.

SECTION 7 HANDLING and STORAGE

Precautions for safe handling: Avoid eye and prolonged/repeated skin contact. Avoid breathing vapors and mists. Wash thoroughly after handling. Remove oil-soaked clothing and launder before re-use. Discard oil soaked shoes and other items than cannot be laundered.

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

Spills on fibrous insulation may lower the autoignition temperatures resulting in spontaneous combustion.

Conditions for safe storage, including any incompatibilities: Protect containers from physical damage. Store in a cool area away from oxidizers and other incompatible materials. Store in original container. Do not store in aluminum, copper, galvanized iron or galvanized steel.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name	CAS#.	Exposure Limits
Triethylene Glycol Monomethyl Ether Borate Ester	Proprietary	2 mg/m3 TWA (inhalable), 6 mg/m3 STEL (inhalable) ACGIH TLV (as borate compounds)
Triethylene Glycol Monomethyl Ether	112-35-6	None Established

Tetraethylene Glycol Monomethyl Ether	23783-42-8	None Established
Diethylene Glycol Monomethyl Ether	111-77-3	None Established
Monoethanolamine	141-43-5	3 ppm TWA OSHA PEL 3 ppm TWA, 6 ppm STEL ACGIH TLV

Appropriate engineering controls: Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. . If exposures are excessive, increased mechanical ventilation such as local exhaust may be required.

Respiratory protection: None needed under normal use conditions with adequate ventilation. If exposures are excessive, use a NIOSH approved respirator with organic vapor cartridges and particulate pre-filter. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.
Skin protection: Chemical resistant gloves such as butyl rubber or Ethyl Vinyl Alcohol Laminate (EVAL) are recommended where prolonged or repeated skin contact is likely.
Eye protection: Safety glasses or goggles if splashing is possible.

Other: 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 (physical state, color, etc.): Yellow liquid
Odor: Mild petroleum odor.

Odor threshold: Not available	**pH:** 7.2
Freezing point/Pourpoint: -58°F / -50°C	**Boiling Point:** >509°F / >265°C
Flash point: >239°F / >115°C	**Viscosity:** 817 mm2/s@ 40°
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not available	**UEL:** Not available
Vapor pressure: Not available	**Vapor density (air =1):** Not available
Relative density: 1.06	**Solubility(ies):** Not available
Partition coefficient: n-octanol/water: Not available	**Auto-ignition temperature:** Not available
Decomposition temperature: Not available	**Evaporation rate:** Not available

SECTION 10 STABILITY and REACTIVITY

Reactivity: This product is not expected to react.
Chemical stability: The product is stable.
Possibility of hazardous reactions: None known.
Conditions to avoid: Avoid excessive heat. Product can oxidize at elevated temperatures.
Incompatible materials: Avoid strong oxidizing agents, acids and bases.
Hazardous decomposition products: Thermal decomposition may yield carbon and nitrogen oxides, aldehydes, alcohols and organic acids

SECTION 11 TOXICOLOGICAL INFORMATION

Health Hazards:
Inhalation: Excessive inhalation of vapors or mists may cause upper respiratory tract irritation.

Skin Contact: Prolonged or repeated contact may cause irritation or dryness.

Eye Contact: Causes eye irritation with redness, tearing and pain.

Ingestion: Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea.

Chronic Effects of Overexposure: None known.

Sensitization: None of the components have been found to cause sensitization in animals or humans.

Mutagenicity: This product is not expected to cause mutagenic activity.

Reproductive Toxicity: This product contains a chemical that cause birth defects in animals only at doses that were toxic to the mother.

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

ACUTE TOXICITY VALUES:
Triethylene Glycol Monomethyl Ether Borate Ester: No data available
Triethylene Glycol Monomethyl Ether: Oral rat LD50 >10,500 mg/kg, Inhalation rat LC0 > 10 ppm (saturated vapor concentration), Dermal rabbit LD50 7100 mg/kg
Tetraethylene Glycol Monomethyl Ether: Oral rat LD50 >10,500 mg/L, Dermal rabbit LD50 7100 mg/kg
Diethylene Glycol Monomethyl Ether: Oral rat LD50 9210 mg/L, Inhalation rat LC50 >1.2 mg/L/6 hr, Dermal rabbit LD50 9404 mg/kg
Monoethanolamide: Oral rat LD50 1515/kg, Dermal rabbit LD50 2054 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:
Triethylene Glycol Monomethyl Ether Borate Ester: 96 hr LC50 Oncorhynchus mykiss 590 mg/kg, 48 hr EC50 daphnia magna >1000 mg/L, 96 hr EC50 Scenedesmus sp 430 mg/L
Triethylene Glycol Monomethyl Ether: 96 hr LC0 >5000 mg/L, 48 hr EC50 daphnia magna >500 mg/L, 72 hr EC50 Desmodesmus subspicatus >500 mg/L
Tetraethylene Glycol Monomethyl Ether: 96 hr LC0 Pimephales promelas >20,000 mg/L, 48 hr EC50 daphnia magna 22900 mg/L, 72 hr EC50 Desmodesmus subspicatus >500 mg/L
Diethylene Glycol Monomethyl Ether: 96 hr LC50 Pimephales promelas 5741 mg/L, 48 hr EC50 daphnia magna 1192 mg/L, 96 hr EC50 Pseudokirchnerella subcapitata >1000 mg/L
Monoethanolamide: 96 hr LC50 Cyprinus carpio 349 mg/L, 48 hr EC50 daphnia magna 65 mg/L, 72 hr EC50 Pseudokirchnerella subcapitata 2.8 mg/L

Persistence and degradability: The product is readily biodegradable.
Bioaccumulative potential: Not expected to bioaccumulate.
Mobility in soil: NO data available
Other adverse effects: None known.

SECTION 13: DISPOSAL INFORMATION

Waste Disposal Method: Dispose in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			
TDG		Not Regulated			
IMDG		Not Regulated			
IATA		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known.

SECTION 15: REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question.

CERCLA: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

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

EPA SARA 311 Hazard Classification: Refer to Section 2 for OSHA Hazard Classification

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:

Triethylene glycol monomethyl ether	112-35-6	15-50%
Diethylene Glycol Monomethyl Ether	111-77-3	<1%

California Proposition 65: This product contains chemicals known to the State of California to cause cancer and reproductive toxicity.

US EPA Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory.

European EINECS: All of the components of this product are listed on the EINECS inventory.

China: All the components of this product are listed on the Inventory of Existing Chemical and Substances in China (IECSC).

SECTION 16: OTHER INFORMATION

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

Revision History:
4/24/15: Converted to GHS format. All section revised
10/02/17: Header, Section 1 Emergency Phone Number, Section 15 SARA 311