

Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: Spectro® FC Fuel Conditioner and Stabilizer

Product Code: SFC

Product Use: Fuel Conditioner

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
Flammable Liquid Category 2	Aspiration Toxicity Category 1 Skin Irritation Category 2 Eye Irritation Category 2A Specific Target Organ Toxicity Single Exposure Category 3 (Nervous System) Specific Target Organ Toxicity Repeat Exposure Category 1 Specific Target Organ Toxicity Repeat Exposure Category 2 Carcinogen Category 2

Label Elements:

Danger!



Highly flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer.
May cause drowsiness or dizziness.
Causes damage to central nervous system through prolonged or repeated exposure by inhalation.
May cause damage hearing organs through prolonged or repeated exposure.

Precautionary Phrases

Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

Keep container tightly closed.
Ground and bond container and receiving equipment
Use explosion-proof electrical, ventilating and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe mist, vapors or spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection and face protection.
IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
If skin irritation occurs: Get medical attention.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor if you feel unwell
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 attention.
Get medical attention if you feel unwell.
In case of fire: Use water fog, alcohol foam, carbon dioxide or dry chemical to extinguish.
Store in a well-ventilated place. Keep cool. Keep container tightly closed.
Store locked up.
Dispose of contents and container in accordance with local and national regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Petroleum Solvent	64742-46-7 8052-41-3 64742-95-6	30-90%
Isopropanol	67-63-0	10-30%
1,2,4 Trimethylbenzene	95-63-6	1-5%
n-Nonane	111-84-2	0.5-1.5%
Light Aromatic Solvent Naphtha	64742-95-6	0.1-1%
Xylene	1330-20-7	0.1-1%
1, 3, 5 Trimethylbenzene	108-67-8	0.1-1%
Ethylbenzene	100-41-4	0.1-1%
Naphthalene	91-20-3	0.1-1%

The exact percentage has been withheld as a trade secret.

SECTION 4 EMERGENCY and FIRST AID PROCEDURES

Eye Contact: Immediately flush eyes with water while lifting the upper and lower lids. Get medical attention if irritation develops or persists.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops or persists.

Inhalation: Remove victim to fresh air. If irritation occurs or breathing is difficult, get medical attention.

Ingestion: Rinse mouth with water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention by calling a Poison Control Center or hospital emergency department.

Most important symptoms/effects, acute and delayed: Causes eye and skin irritation. Excessive inhalation of vapor or mists may cause upper respiratory tract irritation and central nervous system effects. Swallowing may cause nausea, vomiting and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause lung damage. Prolonged over exposure may cause damage to central nervous system and hearing. May cause cancer based on animal data.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is required if swallowed.

SECTION 5 FIRE and EXPLOSION HAZARD DATA

Suitable extinguishing media: Use water fog, alcohol foam, carbon dioxide or dry chemical to extinguish.

Specific hazards arising from the chemical: At elevated temperatures containers may rupture. Use of large amounts of water may cause product to float and spread fire. Combustion may produce carbon oxides and hydrocarbon fragments.

Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and 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. Eliminate all ignition sources. Ventilate area.

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. Collect with an inert absorbent and place into a suitable container for flammable waste.

SECTION 7 HANDLING and STORAGE

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Wash thoroughly after handling. Use only with adequate ventilation. Keep away from heat, sparks, open flames and all other sources of ignition. Do not smoke during use.

Conditions for safe storage, including any incompatibilities: Store in a cool area away from oxidizing agents. Protect containers from physical damage.

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

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

Exposure Guidelines:

Chemical name	Exposure Limits
Petroleum Solvent (as stoddard solvent)	500 ppm TWA OSHA PEL 100 ppm TWA ACGIH TLV
Isopropanol	400 ppm TWA OSHA PEL 200 ppm TWA, 400 ppm STEL ACGIH TLV
1,2,4 Trimethylbenzene	25 ppm TWA ACGIH TLV
n-Nonane	200 ppm TWA ACGIH TLV
Xylene	100 ppm TWA OSHA PEL 100 ppm TWA, 150 ppm STEL ACGIH TLV
1, 3, 5 Trimethylbenzene	25 ppm TWA ACGIH TLV
Ethylbenzene	100 ppm TWA OSHA PEL 20 ppm TWA ACGIH TLV
Naphthalene	10 ppm TWA OSHA PEL 10 ppm, skin TWA ACGIH TLV

Appropriate engineering controls: Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If exposure limits are exceeded or 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 limits are exceeded, 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: Nitrile, neoprene or other impervious gloves are recommended where prolonged or repeated skin contact is likely.

Eye protection: Safety goggles are recommended if splashing is possible.

Other: Impervious apron, boots and other clothing are recommended if needed to avoid skin contact. Suitable washing facilities should be available.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Red liquid.

Odor: Alcohol odor.

Odor threshold: Not available	pH: Not applicable
Melting point/Pourpoint: Not available	Boiling Point: 180°F (82.3°C) (isopropanol)
Flash point: 13°C / 55.4°C	Evaporation rate: Not available
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not available	Vapor density: Not available
Relative density: 0.822 @ 15°C	Solubility(ies): Negligible
Partition coefficient: n-ctanol/water: Not available	Auto-ignition temperature: Not available
Decomposition temperature: Not available	Viscosity: <14 cSt @ 40°C

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 heat, sparks and open flames.

Incompatible materials: Avoid strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition may yield carbon monoxide, carbon dioxide and hydrocarbon fragments.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Hazards:

Inhalation: Inhalation of vapors or mists may cause upper respiratory tract irritation and central nervous system effects including headache, dizziness, drowsiness, ataxia, stupor, cyanosis, difficulty in breathing and cardiac arrest.

Skin Contact: Causes skin irritation with redness, itching and drying of the skin.

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

Ingestion: Swallowing may cause gastrointestinal, nausea vomiting and diarrhea. Aspiration during swallowing and vomiting may cause lung damage.

Chronic Effects of Overexposure: Prolonged over exposure to stoddard solvent may cause damage to the central nervous system. Prolonged overexposure to ethylbenzene may cause damage to hearing.

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

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

Carcinogenicity: Ethylbenzene is listed by IARC as "Possibly Carcinogenic to Humans", Group 2B. Naphthalene is listed by IARC as "Possibly Carcinogenic to Humans", Group 2B, as "Reasonably Anticipated to be a Human Carcinogen" None of the other components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Acute Toxicity Values:

Petroleum Solvents: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 4.6 mg/L, Dermal rabbit LD50 >2000 mg/kg.

Isopropanol: Oral rat LD50 5840 mg/kg, Dermal rabbit LD50 13120 mg/kg, Inhalation rat LC50 12.289 mg/L/6 hr

n-Nonane: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 170 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg

Xylene: Oral rat LD50 5251 mg/kg, Inhalation rat LC50 29091 mg/m³, Dermal rabbit LD50 >4200 mg/kg.

1, 3, 5 Trimethylbenzene

Ethylbenzene: Oral rat LD50 3500 mg/kg, Dermal rabbit LD50 15.4 g/kg

Naphthalene: Oral rat LD50 533 mg/kg, Inhalation rat LC0 0.4 mg/L (highest attainable concentration), Dermal rat LC50 >2500 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Petroleum Solvent: 96 hr LL50 *Oncorhynchus mykiss* 1.13 mg/L, 48 hr EL50 *daphnia magna* 7.385 mg/L, 72 hr EL50

Pseudokirchnerella subcapitata 1.715 mg/L

Isopropanol: 96 hr LC50 *Pimephales promelas* 10000 mg/L, 24 hr LC50 *daphnia magna* LC50 >10000 mg/L

1,2,4 Trimethylbenzene: 96 hr LC50 *Pimephales promelas* 7.72 mg/L, 48 hr LC50 *daphnia magna* 3.6 mg/L, 96 hr

EC50 Green algae 2.356 mg/L

n-Nonane: 96 hr LL50 *Oncorhynchus mykiss* 1.125 mg/L, 48 hr EC50 *daphnia magna* 0.2 mg/L, 72 hr EL50

Pseudokirchnerella subcapitata 1.098 mg/L

Xylene: 96 hr LC50 *Oncorhynchus mykiss* 2.6 mg/L, 24 hr IC50 *daphnia magna* 3.6 mg/L, 72 hr EC50

Pseudokirchnerella subcapitata 4.36 mg/L

1, 3, 5 Trimethylbenzene

Ethylbenzene: 96 hr EC50 *Oncorhynchus mykiss* 4.2 mg/L, 48 hr EC50 *daphnia magna* 1.8 mg/L, 72 hr EC50 *Skeletonema costatum* 4.9 mg/L.

Naphthalene: 96 hr LC50 *Pimephales promelas* 6.08 mg/L, 48 hr EC50 *daphnia magna* 2.16 mg/L

Persistence and degradability: Petroleum solvent and isopropanol are readily biodegradable.

Bioaccumulative potential: This product is not expected to bioaccumulate.

Mobility in soil: Petroleum solvents are insoluble in water and expected to evaporate quickly into the air.

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	UN1993	Flammable Liquid, n.o.s. (Isopropanol, Stoddard Solvent)	3	PG II	
TDG	UN1993	Flammable Liquid, n.o.s. (Isopropanol, Stoddard Solvent)	3	PG II	
IMDG	UN1993	Flammable Liquid, n.o.s. (Isopropanol, Stoddard Solvent)	3	PG II	
IATA	UN1993	Flammable Liquid, n.o.s. (Isopropanol, Stoddard Solvent)	3	PG II	

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 has a Reportable Quantity (RQ) of 10,000 lbs. (based on the RQ for Naphthalene of 100 lbs at 1% maximum)). Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

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

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

1,2,4 Trimethylbenzene	95-63-6	1-5%
Xylene	1330-20-7	0.1-1%
Ethylbenzene	100-41-4	0.1-1%
Naphthalene	91-20-3	0.1-1%

California Proposition 65: This product contains the following chemicals which are known to the State of California to cause cancer or reproductive toxicity:

Naphthalene	91-20-3	0.1-1%	cancer
Ethyl benzene	100-41-4	0.1-1%	cancer

International Chemical Inventories

Canada DSL: All of the components are listed on the Canadian Domestic Substances List.

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

SECTION 16: OTHER INFORMATION

NFPA Rating: Health: 2 Fire: 3 Reactivity: 0

Revision Summary:

10/30/15: Convert to GHS format. All section revised.

10/02/17: Header, Section 1 Emergency Phone Number, Section 15 SARA 311