



# CITRUSoy® High Flash

## Material Safety Data Sheet

Florida Chemical Company, Inc.

### PRODUCT DATA

Preparation Date: November 2007

### DESCRIPTION

CITRUSoy® High Flash is made with soy methyl ester and citrus fragrance components. The high flash point (>140°F) and low VOCs make it well suited for parts washing and general degreasing applications requiring a non-flammable solvent.

CITRUSoy® High Flash is nonylphenol free (no NPE-surfactants), has no ozone-depleting chemicals (ODCs), no hazardous air pollutants (HAPs), and is readily biodegradable. This product is highly compatible with many other solvents.

Specific formulation guidance and technical assistance is available.

### USES AND APPLICATIONS

CITRUSoy® High Flash is an excellent degreaser for automotive, manufacturing, and printing industry uses. It is an outstanding cleaner for heavy grease on equipment, tools, and engine parts. It works well as a parts cleaner, asphalt release agent, paving equipment cleaner, blanket roller wash, ink carrier, offset/web press wash and screen printing ink wash. The product also serves as a corrosion inhibitor, paint cleaner, graffiti remover, and adhesive remover.

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: CITRUSoy® High Flash  
Product Code: 909012  
Issue Date: November 2007

Manufacturer: Florida Chemical Company, Inc.  
Address: 351 Winter Haven Blvd., NE  
Winter Haven, FL 33881-9432  
(863)294-8483 (9 a.m. to 5 p.m ET)

For emergencies, call Chemtrec anytime at 1-800-424-9300.  
Outside US, call Chemtrec Collect at 703-527-3887.

## SECTION 2: HAZARDS IDENTIFICATION

### **Emergency Overview**

Appearance/Odor: Yellow liquid with citrus aroma.

Product is Combustible.

Slippery when spilled.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Eye contact, skin contact, inhalation.

Eye: Causes moderate to severe irritation.

Skin: May cause slight redness. Prolonged or repeated exposure may cause drying of the skin.

Inhalation: May cause nose, throat, and respiratory tract irritation, coughing, headache.

Ingestion: Not likely to be toxic, but may cause vomiting, headache, or other medical problems.

Medical Conditions Aggravated By Exposure: May irritate the skin of people with pre-existing skin conditions.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

### **OSHA Regulatory Status**

This material is combustible, which is defined as having a flash point between 100°F (37.8°C) and 200°F (93.3°C). Combustible materials are hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS #</u>	<u>% by Wt.</u>
Citrus Terpenes	94266-47-4	20-60
Methyl Soyate	67784-80-9	40-80

**SECTION 4: FIRST AID MEASURES**

Eye Contact: Remove contact lenses at once. Flush with water for at least 15 minutes. If irritation persists, seek medical attention.  
 Skin Contact: Wash affected area with copious amounts of soap and water. If irritation develops, seek medical attention.  
 Inhalation: Move to fresh air. If symptoms persist, seek medical attention.  
 Ingestion: Seek medical attention immediately. DO NOT induce vomiting. Rinse mouth with water. DO NOT administer anything by mouth to an unconscious person.  
 General: As with any chemical, employees should thoroughly wash hands with soap and water after handling this material.

**SECTION 5: FIRE FIGHTING MEASURES**

Suitable Extinguishing Media: Carbon dioxide, foam or dry chemical. Caution: Carbon dioxide will displace air in confined spaces and may create an oxygen-deficient atmosphere.  
 Unsuitable Extinguishing Media: Water.  
 Products of Combustion: Forms acrid fumes, carbon monoxide, and carbon dioxide.  
 Protection of Firefighters: Vapors may be irritating to eyes, skin, and respiratory tract. Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Use personal protection recommended in Section 8. Product is slippery when spilled. Isolate the hazard area. Deny entry to unnecessary and unprotected personnel.  
 Environmental Precautions: Keep out of drains, sewers, ditches, and waterways.  
 Methods for Containment: Dike spill area and cap leaking containers as necessary to prevent further spreading of spilled material. Absorb spilled liquid with suitable material.  
 Methods for Clean Up: Eliminate all ignition sources. Use equipment rated for use around combustible materials. Oil-soaked rags may spontaneously combust; place in appropriate disposal container.  
 Other Information: There are no special reporting requirements for spills of this material.

**SECTION 7: HANDLING AND STORAGE****Handling**

Keep away from heat, sparks, and flame. Open container slowly to release pressure caused by temperature variations. Do not allow this material to come in contact with eyes. Avoid prolonged contact with skin. Use in well-ventilated areas. Do not breathe vapors. As with any chemical, employees should thoroughly wash hands with soap and water after handling this material.

**Storage**

Product may be packaged in phenolic-lined, steel containers or fluorinated plastic containers. Store in well-ventilated area. Storage temperature should not exceed 110°F (43°C) for extended periods of time. Keep container closed when not in use. Air should be excluded from partially-filled containers by displacing with nitrogen or carbon dioxide. Do not cut, drill, grind or weld on or near this container; residual vapors may ignite.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

Citrus Terpenes	8h TWA=30ppm (AIHA standard)
Methyl Soyate	N/E (N/E – Not Established)

Engineering Controls: Provide ventilation. Keep away from sparks and flames.

Eye/Face Protection: Wear safety glasses or goggles.

Skin Protection: Nitrile gloves are recommended. Boots, apron, or bodysuits should be worn as necessary.

Respiratory Protection: Not normally required. If adequate ventilation is unavailable, use NIOSH approved air-purifying respirator with organic vapor cartridge or canister.

General Hygiene Considerations: Wash hands thoroughly after handling. Have eyewash facilities immediately available.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Color: Colorless to straw yellow  
Odor: Mild, citrus aroma  
Physical State: Liquid  
Boiling Point: >212°F (>100°C)  
Specific Gravity: 0.86 to 0.88 @ 77°F (25°C)  
Vapor Pressure: <2 mmHg @ 68°F (20°C)  
Flash Point: 150°F (65.6°C)  
Solubility in Water: Insoluble.  
Evaporation Rate: Estimated slower than ethyl ether.  
Volatile Organic Compound (VOC) Content: 10-40% by volume

Note: These specifications represent a typical sample of this product, but actual values may vary. Certificates of Analysis and Specification Sheets are available upon request.

**SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.  
Conditions to Avoid: Keep away from heat, sparks, and flames.  
Incompatible Materials: Strong oxidizing agents, strong bases, and strong acids, including acidic clays, peroxides, halogens, vinyl chloride, and iodine pentafluoride.  
Hazardous Decomposition Products: Oxides of citrus terpenes, which can result from improper storage and handling, are known to cause skin sensitization.  
Possibility of Hazardous Reactions: BHT, an antioxidant, has been added to prevent oxidation. Avoid long-term exposure to air. If storing partially-filled container, fill headspace with an inert gas such as nitrogen or carbon dioxide. Hydrolysis of this product will produce methanol.

**SECTION 11: TOXICOLOGICAL INFORMATION****Acute Effects**

Methyl soyate has been shown to have low oral toxicity ( $LD_{50}>5$  g/kg) when tested on rats and low dermal toxicity ( $LD_{50}>2$  g/kg) when tested on rabbits. Citrus terpenes have been shown to have low oral toxicity ( $LD_{50}>5$  g/kg) and low dermal toxicity ( $LD_{50}>5$  g/kg) when tested on rabbits. Citrus terpenes also showed low toxicity by inhalation ( $RD_{50}>1$  g/kg) when tested on mice. Product may be a skin and eye irritant. Inhalation may cause irritation of the nose, throat, and respiratory tract.

**Chronic Effects**

This product is not classified as a carcinogen by OSHA, IARC or NTP. This product has not been shown to produce genetic changes when tested on bacterial or animal cells. This product does not contain known reproductive or developmental toxins. Prolonged or repeated exposure can cause drying or dermatitis of skin. Improper storage and handling may lead to the formation of a possible skin sensitizer.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity: There is no information available at this time for this product. However, a spill may produce significant toxicity to aquatic organisms and ecosystems. Some studies have shown that certain bacteria and fungi have the ability to degrade terpenes, decreasing their toxicity to fish. When spilled, this product may act as an oil, causing a film, sheen, emulsion or sludge at or beneath the surface of a body of water.

Persistence/Degradability: Product is expected to be readily biodegradable.

Bioaccumulation/Accumulation: No appreciable bioconcentration is expected in the environment.

Mobility in Environment: Citrus terpenes volatilize rapidly.

**SECTION 13: DISPOSAL CONSIDERATION**

Disposal: Incinerate or dispose of in accordance with Local, State, and Federal Regulations. Taking regulations into consideration, waste may be incinerated or handled through EPA Spill Control Plan via landfill or dilution. Empty containers must be triple-rinsed prior to disposal. Oil-soaked rags should be disposed of properly to prevent spontaneous combustion.

**SECTION 14: TRANSPORT INFORMATION****US DOT Shipping Classification**

Proper Shipping Name: Combustible Liquid, N.O.S (d-Limonene)

Hazard Class: 3

Identification No.: NA1993

Packing Group: III

**TDG Status:** Not Hazardous**IMO Status:** Not Hazardous**IATA Status:** Not Hazardous

The listed transportation classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptions.

**SECTION 15: REGULATORY INFORMATION****Global Inventories**

The components of this product are included in the following inventories:

USA (TSCA)

Canada (DSL)

Australia (AICS)

Europe (EINECS)

Korea (KECL)

**Proposition 65: California Safe Drinking Water and Toxic Enforcement Act of 1986**

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

**SARA Title III (Section 313)**

This substance contains no materials subject to the reporting requirements of SARA Title III (Section 313).

**SECTION 16: OTHER INFORMATION**

NFPA 704: National Fire Protection Association

Health – 1

Fire – 2

Reactivity – 0

## Legend

OSHA – United States Occupational Safety and Health Administration

IARC – International Agency for Research on Cancer

NTP – National Toxicology Program

NIOSH – National Institute for Occupational Safety and Health

BHT – Butylated Hydroxytoluene

EPA – United States Environmental Protection Agency

Caution: The user should conduct his/her own experiments and establish proper procedures and control before attempting use on critical parts.

Prepared by Florida Chemical Company Technical Team.

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