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**SAFETY DATA SHEET**

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**Section 1: IDENTIFICATION****Product Name:** Fit Conc. Produce Cleaner**Product Code:** B10310**MSDS Date:** November 28, 2012Chemisphere Corporation  
2101 Clifton Ave  
St. Louis, MO 63139**General Information: 314-644-1300****CHEMTREC: 800-424-9300****Section 2: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:****GHS Classification:**Flammable liquids, Category 4  
Eye irritation, Category 2B**GHS Labeling****Symbol:** None**Signal Word:** Warning**Hazard Statements:**Combustible liquid  
Causes eye irritation.**Precautionary Statements:****Prevention:**Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Wash hands thoroughly after handling.**Response:**

In case of fire: consider carbon dioxide, dry chemical powder, dry sand, limestone powder, or alcohol resistant foam to extinguish.

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 advice/attention.

**Storage:**

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Potential Health Effects:** See Section 11 for more information

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

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

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

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	Ethyl Alcohol CAS #64-17-5	1-10	1000 ppm	Not Available	1000 ppm	Not Available
2	Citric Acid CAS #77-92-9	1-45	Not Available	Not Available	Not Available	Not Available
3	Sodium Hydroxide CAS #1310-73-2	>1	Not Available	Not Available	Not Available	Not Available

**Section 4: FIRST AID MEASURES**

Emergency first aid procedures by route of exposure:

- Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do not induce vomiting. If the material is swallowed, get medical attention or advice.
- Skin:** If irritation is experienced, flush with water. If irritation persists, get medical attention.
- Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

**Section 5: FIRE FIGHTING MEASURES**

- Flash Point:** 62°C
- Auto-ignition Temperature: (ethyl alcohol)** 363°C
- Lower Explosion Limit: (ethyl alcohol)** 3.3%
- Upper Explosion Limit: (ethyl alcohol)** 19.0%
- Flammability Classification:** Combustible Liquid Class IIIA

**Suitable Extinguishing Media:**

Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

**Products of Combustion:**

Upon decomposition this product may emit carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.

**Fire Fighting Equipment/Instructions:**

Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

HAZARD	HMIS	NFPA
Toxicity	1	1
Fire	0	0
Reactivity	0	0

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Protection:** For large spills wear gloves, Tyvek suits, safety glasses, and appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

**Environmental Precautions:** Prevent discharge to open bodies of water, municipal sewers, and watercourses.

**Method for Containment:** Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

**Methods for Clean-up:** Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

## Section 7: HANDLING AND STORAGE

### Handling:

Keep away from heat, sparks and flame. Use only with adequate ventilation. Avoid contact with skin and eyes.

### Storage:

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

## Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

### Personal Protective Equipment (PPE)

**Respiratory Protection:** Wear appropriate respirator when ventilation is inadequate.

**Eye/Face Protection:** Safety glasses with side shields are recommended as minimum protection in industrial settings.

**Hand Protection:** Rubber gloves

**Body:** Avoid skin contact. If product comes in contact with clothing, immediately remove soaked clothing and shower.

### Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance, State</b>	Clear to slightly hazy liquid
<b>Color</b>	Colorless to light straw
<b>Odor</b>	Citrus/detergent
<b>pH</b>	2.40 – 2.90
<b>Vapor Density</b>	Not Available
<b>Boiling Point</b>	Not Available
<b>Vapor Pressure</b>	Not Available
<b>Melting Point</b>	Not Available
<b>Freezing Point</b>	Not Available
<b>Flash Point</b> (See Section 5)	
<b>Flammability Properties</b> (See section 5)	
<b>Solubility</b> (in water)	Soluble
<b>Density</b>	9.16 – 9.33

**Evaporation Rate** Not Available  
**Octanol/Water partition coefficient (Kow)** Not Available  
**Auto-ignition temperature:** (See section 5)  
**Decomposition temperature:** Not Available

## Section 10: STABILITY AND REACTIVITY

**Stability:** This material is considered stable at ambient temperatures 70°C (21°C).

**Condition to Avoid:** Flames, sparks, electrostatic discharge, heat and other ignition sources.

**Incompatible Materials:** This product reacts with strong acid, strong bases, oxidizing agents, nitrates, and reducing agents.

**Hazardous Decomposition:** Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

**Hazardous Reactions:** This product will not undergo polymerization.

## Section 11: TOXICOLOGICAL INFORMATION

### ACUTE EFFECTS:

#### Analysis LD50

Ethyl Alcohol (64-17-5)  
Oral LD50 Rat: 7060 mg/kg

Citric Acid (77-92-9)  
LD50 Oral – rat – 5,400 mg/kg  
LD50 Dermal – rat - >2,000 mg/kg  
Skin – rabbit- mild skin irritation-OECD test Guideline 404  
Eyes – rabbit – Irritating to eyes-OECD test Guideline 405  
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.  
May be harmful if swallowed or inhaled.

### CHRONIC EFFECTS:

Ethyl Alcohol (64-17-5)

**Carcinogenic Effects:** A4 - Not classifiable for human or animal by ACGIH.

**Mutagenic Effects:** Not Available.

**Teratogenic Effects:** Not Available.

**Developmental Toxicity:** Ethyl alcohol is a developmental toxin when consumed during pregnancy

**Target Organs:** When consumed, ethyl alcohol can target the respiratory system, skin, eyes, CNS, liver, blood, and reproductive system.

Citric Acid (77-92-9)

**Carcinogenic Effects:** Not classifiable for human or animal by IARC, ACGIH, NTP, or OSHA.

**Mutagenic Effects:** Not Available.

**Teratogenic Effects:** Not Available.

**Developmental Toxicity:**

**Target Organs:**

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Ethyl Alcohol (64-17-5)

96 hour LC50 Oncorhynchus mykiss: 12,900 mg/L (flow-through) (30days old)  
96 hour LC50 Pimephales promelas 14.2 mg/L  
5 min EC50 Photobacterium phosphoreum: 35,470 mg/L  
30 min EC50 Photobacterium phosphoreum: 34,634 mg/L  
48 hour EC50 Daphnia magna: 9,268 mg/L  
24 hour EC50 Daphnia magna: 10,800 mg/L

**Ecotoxicity:** Ethyl Alcohol (64-17-5)

Mortality LC50 – Leuciscus idus melanotus – 440 mg/l – 48h OECD Test Guideline 203  
Toxicity to daphnia and other aquatic invertibrates static test–Daphnia magna (Water flea)–1,535 mg/l–24 h

## Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

## Section 14: TRANSPORTATION INFORMATION

Not regulated as a dangerous good.

## Section 15: REGULATORY INFORMATION

**TSCA Inventory** This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

**SARA 302/304** The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

**CERCLA** The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: No components were identified.

**SARA 311/312 Hazard** The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: fire, Acute (Immediate) Health Hazard

### California Proposition 65

This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5): Ethyl alcohol (developmental toxicity when in alcoholic beverages)

**Section 16: OTHER SUPPLEMENTAL INFORMATION**

Prepared by: Chemisphere Corp. on 8/30/12

Disclaimer:

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

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