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**SAFETY DATA SHEET**

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**Section 1: IDENTIFICATION**

**Product Name:** Citra Solv II  
**Product Code:** 1667  
**SDS Date:** December 19, 2014

Misco Industrial, LLC  
109 Space Park N  
Goodlettsville, TN 37072

**General**  
**Information:** 314-644-1300  
**CHEMTEL:** 800-424-9300

**Section 2: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:****GHS Classification:**

Flammable liquids (Category 3), H226  
Skin irritation (Category 2), H315  
Skin sensitization (Category 1), H317  
Aspiration hazard (Category 1), H304

**GHS Labeling****Symbol:****Signal Word:** Danger**Hazard Statements:**

Flammable liquid and vapor  
Causes skin irritation.  
May cause an allergic skin reaction  
May be fatal if swallowed and enters airways

**Precautionary Statements:****Prevention:**

Avoid breathing mist/vapors/spray.  
Contaminated work clothing must not be allowed out of the workplace.  
Ground/bond container and receiving equipment.  
Keep away from heat/sparks/open flames/hot surfaces-no smoking.  
Keep container tightly closed.  
Take precautionary measure against static discharge.  
Use only non-sparking tools.  
Wash thoroughly after handling.  
Wear protective gloves/eye protection/face protection

**Response:**

Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower.  
If on skin: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.

If swallowed: Immediately call a poison center/doctor.  
In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
Take off contaminated clothing and wash it before reuse.  
Wash contaminated clothing before reuse.

**Storage:**

Store in a well-ventilated place. Keep cool.  
Store locked up.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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

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: COMPOSTION/INFORMATION ON INGREDIENTS

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	Limonene, D- CAS #5989-27-5	60-100	Not avail	Not avail	20 ppm	Not avail
2	Benzenesulfonic acid, dodecyl-, branched, compd. With 2-propanamine CAS #90218-35-2	1-20	Not avail	Not avail	Not avail	Not avail

### Section 4: FIRST AID MEASURES

**Emergency first aid procedures by route of exposure:**

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Skin:** Wash off with soap and plenty of water. Consult a physician.

**Eyes:** Flush eyes with water as a precaution.

### Section 5: FIRE FIGHTING MEASURES

**Flash Point (Limonene, D)** 48.88°C (120°F) Pensky Martens closed cup

**LEL (Limonene, D):** 0.7% (V)

**UEL (Limonene, D):** 6.1% (V)

**Auto Ignition Temperature:** 458°F / 237°C

**NFPA Classification:** Combustible Liquid Class II

**Suitable Extinguishing Media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Products of Combustion:**

Carbon oxides

**Fire Fighting Equipment/Instructions:**

Wear self-contained breathing apparatus for firefighting if necessary.

HAZARD	HMIS	NFPA
Toxicity	1	1
Fire	2	2
Reactivity	0	0

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Protection:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

**Methods for Clean-up:** Use clean non-sparking tools to collect absorbed material. Dike large spills and place materials in salvage containers.

## Section 7: HANDLING AND STORAGE

**Handling:**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

**Storage:**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 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. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal Protective Equipment (PPE)**

**Respiratory Protection:** A respiratory protection program that meets OSHA's 29CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use.

**Eye/Face Protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Hand Protection:** Wear chemical resistant gloves such as nitrile rubber.

**Body:** When skin contact is possible, protective clothing including apron, sleeves, boots, head and face protection should be worn.

**Other Protective Equipment:**

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

See section 3 for exposure limits.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance, State:** Clear Liquid

**Color:** Colorless

**Odor:** Citrus-like odor

**pH:** Not Available

**Vapor Density:** Not available

**Boiling Point: (Limonene, D)** 347.9 - 349°C@101.72kPa

**Vapor Pressure: (Limonene, D)** 0.192 kPa @ 77°F/25°C

**Melting Point/freezing point: (Limonene, D)** -101.83°F / -74.35°C

**Flash Point** (See Section 5)

**Flammability Properties** (See section 5)

**Solubility** (in water) Insoluble

**Density (Limonene, D):** (+/- 0.01) 0.8405 g/cm<sup>3</sup> @ 77.00°F / 25.00°C

**Evaporation Rate: (Limonene, D)** (>) 1 Ethyl Ether

**Octanol/Water partition coefficient (Kow)** Not Available

**Auto-ignition temperature** (See Section 5)

**Decomposition temperature:** Not Available

**Viscosity:** Not Available

## Section 10: STABILITY AND REACTIVITY

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

**Condition to Avoid:** Heat, flames, and sparks.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition:** Carbon dioxide and carbon monoxide may form when heated to decomposition.

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

## Section 11: TOXICOLOGICAL INFORMATION

### ACUTE EFFECTS:

#### Component Analysis LD50

Limonene-D (5989-27-5)

Oral LD50 Rat 4400 mg/kg;

Dermal LD50 Rabbit >2000 mg/kg

### CHRONIC EFFECTS:

#### Component

Limonene-D (5989-27-5)

**Carcinogenic Effects:** IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)

**Mutagenic Effects:** Not Available.

**Teratogenic Effects:** Not Available

**Developmental Toxicity:** This component has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

**Target Organs:** Exposure to this component has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs specific to the male rat and the kidney effects are not expected to occur in humans. Overexposure to this component has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible, kidney effects. **Eye contact:** May cause mild

eye irritation. Symptoms include stinging, tearing, and redness. **Skin contact:** May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling, and other skin effects.) Passage of this material into the body through the skin is possible, but it unlikely that this would result in harmful effects during safe handling and use. **Ingestion:** Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. **Inhalation:** Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable. **Aggravated Medical Condition:** Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions). **Symptoms:** Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways).

Benzenesulfonic acid, dodecyl-, branched, compd. With 2-propanamine (90218-35-2)

**Carcinogenic Effects:** Not Available.

**Mutagenic Effects:** Not Available.

**Teratogenic Effects:** Not Available.

**Developmental Toxicity:** Not Available.

**Target Organs:** Severely irritating to the eyes, severely irritating to the skin.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Limonene-D (CAS#5989-27-5)  
96 Hr LC50 Pimephales promelas: 0.619-0.796 mg/L [flow-through];  
96 Hr LC50 Oncorhynchus mykiss: 35 mg/L

## Section 13: DISPOSAL CONSIDERATIONS

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

## Section 14: TRANSPORT INFORMATION

**Proper Shipping Name:** Flammable Liquids, n.o.s. (contains Dipentene) Marine Pollutant

**Hazard Class:** 3

**Identification No.:** UN1993

**Packing Group:** III

**Placard:** Flammable

## 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.

**SARA 313:** 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: Acute, Chronic, Fire

**California Prop 65:** No components were identified.

## Section 16: OTHER SUPPLEMENTAL INFORMATION

Prepared for: Misco Industrial, LLC on 9/30/20

### Disclaimer:

The information and recommendations contained in the Safety Data Sheet (SDS) 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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