

Issue Date 01/05/2014

Revision Date 01/05/2015

Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Citra Solv

Other means of identification

Product Code 1665

Recommended use of the chemical and restrictions on use

Recommended use Cleaner & Degreaser
Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC
3670 Scarlet Oak Blvd.
St. Louis, MO 63122
800-325-3312

Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

GHS CLASSIFICATION

| | |
|-------------------|-------------|
| Flammable Liquids | Category 3 |
| Skin Irritation | Category 2 |
| Eye irritation | Category 2A |
| Skin Sensitizer | Category 1B |

Label elements

Emergency Overview

WARNING

Hazard statements

Flammable liquid and vapor. Causes skin and serious eye irritation. May cause an allergic skin reaction.



Appearance: Clear Liquid

Physical state: Liquid

Odor: Citrus-like



Precautionary Statements - Prevention

Wear protective gloves/eye protection/ face protection.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements - Storage

Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances.

Precautionary Statements - Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME | CAS NO. | WEIGHT - % | TRADE SECRET |
|-------------------------|-----------|------------|--------------|
| Ethoxylated Nonylphenol | 9016-45-9 | 1-10 | * |
| Limonene, D | 5989-27-5 | 60-100 | * |

***The exact percentage (concentration) of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

First aid measures**Skin Contact**

Remove contaminated clothing as needed. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. Seek medical attention if ill effect or irritation develops.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Inhalation

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain medical attention if breathing difficulty persists.

Ingestion

Do not induce vomiting. Obtain medical attention.

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

| HAZARD | HMIS | NFPA |
|------------|------|------|
| TOXICITY | 1 | 1 |
| FIRE | 2 | 2 |
| REACTIVITY | 0 | 0 |

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), Water spray

Products of combustion

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

Protective equipment and precautions for firefighters

Above flash point, vapor-air mixtures are explosive within flammable limits noted above.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment. Ensure adequate ventilation. Eliminate all sources of ignition.

Environmental precautions

Environmental precautions Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and material for containment and cleaning up

Methods for containment Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

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

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating conditions.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Eye/face protection Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid or vapor.

Skin and body protection Wear chemical resistant gloves such as Butyl rubber or Viton. When skin contact is possible, protective clothing including apron, sleeves, boots, head and face protection should be worn.

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|----------------|------------------|
| Physical State | Liquid |
| Appearance | Clear Liquid |
| Color | Clear |
| Odor | Citrus-like odor |
| Odor Threshold | N/A |

| <u>Property</u> | <u>Values</u> |
|---|---|
| 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 ³ @ 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 |

10. STABILITY AND REACTIVITY

Chemical Stability

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

Hazardous Reactions

This product will not undergo polymerization.

Conditions To Avoid

Strong oxidizing agents, heat, flames, and sparks.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon dioxide and carbon monoxide may form when heated to decomposition.

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

Ethoxylated Nonylphenol (CAS# 9016-45-9)
 LD50 Dermal Rabbit >2000 mg/kg
 LD50 Oral Rat 3310 mg/kg

CHRONIC EFFECTS:

Component

Limonene-D (5989-27-5)

Carcinogenic Effects NTP: Not listed as a carcinogen by IARC, NTP, or OSHA.

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).

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

Ecotoxicity: Ethoxylated Nonylphenol (9016-45-9)
96 hours LC50 Fish 10 mg/L

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT

| | |
|-----------------------------|---|
| UN/ID No. | UN1993 |
| Proper Shipping Name | Flammable Liquid, n.o.s. (contains Dipentene), Marine Pollutant |
| Hazard Class | 3 |
| Packing Group | III |
| Placard | Flammable |

15. REGULATORY INFORMATION

International Inventories

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

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations**SARA 313**

No components were identified.

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 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

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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.

US State Regulations**California Proposition 65**

No components were identified.

16. OTHER INFORMATION

| | |
|----------------------|------------|
| Issue Date | 01-05-2014 |
| Revision Date | 01-05-2015 |
| Revision Note | |

N/A = Not Applicable; N/D = Not Determined

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet