

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CITRA -SOLV™  
 PART NUMBER: GENERAL USE: Cleaning agent  
 PRODUCT DESCRIPTION: Water white to light yellow liquid, citrus odor



MANUFACTURER'S NAME Citra-Solv, LLC	DATE PREPARED: April 15, 2014 SUPERSEDES: April 15, 2011	Page 1 of 4
ADDRESS (NUMBER, STREET, P.O. BOX) P.O. Box 2597	TELEPHONE NUMBER FOR INFORMATION (800) 343-6588	
(CITY, STATE AND ZIP CODE) Danbury, CT 06813-2597 COUNTRY USA	EMERGENCY TELEPHONE NUMBER CHEM • TEL (800) 255-3924 Outside USA (813) 248-0585	

## SECTION 2 - INGREDIENTS- COMPOSITION

Ingredient Name	% (by weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES Full Text Section 16
d-Limonene, Food grade	85-95	94266-47-4	304-454-3	Xi, N	R-10, 38, 43, 50/53
Folded Orange oil, terpenes	1-5	8028-48-6	232-433-8	Xi	R-10, 36/37/38
Alcohols C10-16, ethoxylated	1-10	68002-97-1			

## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Pale yellow to light orange liquid.  
 Product is classified by DOT as Combustible for ground transport in containers less than 120 gallons. Classified as Combustible by OSHA.  
 Likely routes of exposure: Eye contact, skin contact, inhalation. May cause eye and skin irritation upon contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, ACGIH or NTP. Hazard Symbols for this product - Xi, N Risk Phrases - R10, 38, 43, 50/53

### POTENTIAL HEALTH EFFECTS

**INHALATION:** High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.

**SKIN:** Brief contact may cause slight irritation; prolonged contact may cause moderate irritation or dermatitis.

**EYES:** High vapor concentration or contact may cause irritation and discomfort.

**INGESTION:** May result in vomiting; aspiration of vomitus into the lungs must be avoided; DO NOT induce vomiting.

### CARCINOGENICITY

NTP? **No** IARC MONOGRAPHS? **No** OSHA REGULATED? **No**

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SECTION 4 -FIRST AID MEASURES								
INHALATION: Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.								
SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.								
EYES: Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.								
INGESTION: DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Vomiting may be induced only under the supervision of a physician.								
SECTION 5 -FIRE FIGHTING MEASURES								
GENERAL HAZARDS: Product is combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.								
EXTINGUISHING MEDIA Carbon dioxide, water, water fog, dry chemical, chemical foam.								
Self - contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat. FIRE FIGHTING PROCEDURES								
Closed containers can explode due to buildup of pressure when exposed to extreme heat. UNUSUAL FIRE AND EXPLOSION HAZARDS								
HAZARDOUS COMBUSTION PRODUCTS Smoke, fumes or vapors, oxides of carbon.								
SECTION 6 -ACCIDENTAL RELEASE MEASURES								
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: COMBUSTIBLE - Product is slippery when spilled, isolate the hazard area. Evacuate and ventilate area; remove all sources of sparks, ignition and open flames; confine and absorb into approved absorbent; place material into approved containers for disposal; do not wash to sewer or waterway.								
SECTION 7 -HANDLING AND STORAGE								
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: This material is combustible. It should be stored in tightly closed containers in a cool, well ventilated area. Vapor may form explosive mixtures in air. All sources of ignition should be controlled. This material may be classified as Flammable liquids, n.o.s. UN 1993 if transported by vessel or aircraft. Refer to 49 CFR 173.120. Keep this and other chemicals out of reach of children. Avoid inhaling concentrated fumes or vapors.								
SECTION 8 -EXPOSURE CONTROLS / PERSONAL PROTECTION								
HAZARDOUS COMPONENTS	NIOSH				ACGIH			
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
d-Limonene, Food grade (a)	Not established				Not established			
Folded Orange oil, terpenes (a)	Not established				Not established			
Alcohols C10-16, Ethoxylated	Not established				Not established			
PERSONAL PROTECTION:								
RESPIRATORY PROTECTION: None required; however, if misting occurs, NIOSH approved respirator capable of removing particulate from air must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.								
PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.								
EYE PROTECTION: Chemical safety goggles. Refer to 29 CFR 1910.133 or European Standard EN166.								
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station nearby.								
WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.								

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SECTION 9 -PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOR Water white to light yellow liquid, citrus odor	VAPOR PRESSURE <2 mm Hg @ 20° C		
pH Not determined	SPECIFIC GRAVITY (WATER = 1) 0.841		
BOILING POINT / BOILING RANGE 325 F (162.8 C)	SOLUBILITY IN WATER Emulsifies		
TCC FLASH POINT 119 F ( 48.3 C)	VISCOSITY Like that of water		
FLAMMABLE LIMITS LEL: 0.7% UEL: 6.1%	VAPOR DENSITY (AIR = 1) > 1		
AUTOIGNITION TEMPERATURE Not determined	EVAPORATION RATE (WATER = 1) < 1		
SECTION 10 -STABILITY AND REACTIVITY			
STABILITY STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures, sparks & open flames.		
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.			
: HAZARDOUS POLYMERIZATION : WILL NOT OCCUR XXX	CONDITIONS TO AVOID: None		
SECTION 11 -TOXICOLOGICAL INFORMATION			
Hazardous Components	EINECS # CAS #	LD50 of Ingredient (Specify Species and Route)	(Specify Species) LC50 of Ingredient
d-Limonene, Food grade (a)	94266-47-4 304-454-3	> 5000 mg / kg Oral - rat	Not established
Folded Orange oil, terpenes (a)	8028-48-6 232-433-8	Not established	Not established
Alcohols, C10-16, Ethoxylated	68002-97-1	Not established	Not Established
SECTION 12 -ECOLOGICAL INFORMATION			
No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. May produce significant toxicity to aquatic organisms and ecosystems. Product is readily biodegradable with no appreciable bioconcentration expected.			
SECTION 13 -DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce hazardous vapors in a closed disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.			
SECTION 14 -TRANSPORT INFORMATION			
PROPER SHIPPING NAME : Terpene hydrocarbons, N.O.S. (d-limonene)	DOT HAZARD CLASS / Pack Group : 3 / III	REFERENCE : CFR 49 CFR 173.150, 203, .242	TDG: Hazardous
UN / NA IDENTIFICATION NUMBER : UN 2319	LABEL : exception § 173.150(f) applies		IMTA: Hazardous
			Air/Ship: per requirements for Flammable Liquids
			Highway/Rail: per requirements for Combustible Liquids
Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.			

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**SECTION 15 -REGULATORY INFORMATION**

**TSCA (USA -Toxic Substance Control Act)**  
 All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

**SARA TITLE III (USA -Superfund Amendments and Reauthorization Act)**  
 311/312 Hazard Categories  
 Immediate health, fire hazard

**313 Reportable Ingredients**  
 None

**CERCLA (USA -Comprehensive Response Compensation and Liability Act)**  
 None

**CPR (Canadian Controlled Products Regulations)**  
 This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: B3, D2B

**IDL (Canadian Ingredient Disclosure List)**  
 Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)**  
 Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

**EINECS (European Inventory of Existing Commercial Chemical Substances)**  
 Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: 1

VbK Index: A II

**RISK PHRASES:**  
 R10 Flammable.  
 R38 Irritating to skin.  
 R43 May cause sensitization by skin contact.  
 R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Harmful Environment  
 SYMBOL(S) REQUIRED  
 FOR LABEL



S24 Avoid contact with skin.  
 S37 Wear suitable gloves.  
 S60 This material and its container must be disposed of as hazardous waste.  
 S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

**SECTION 16 -OTHER INFORMATION**

Notes & full R-Phrase text

R10 Flammable.  
 R36/37/38 Irritating to eyes, respiratory system and skin.  
 R43 May cause sensitization by skin contact.  
 R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

**HAZARD RATINGS**

HEALTH 1  
 FLAMMABILITY 2  
 PHYSICAL HAZARD 0

0 = INSIGNIFICANT  
 1 = SLIGHT  
 2 = MODERATE  
 3 = HIGH  
 4 = EXTREME

**PERSONAL PROTECTIVE EQUIPMENT** Safety Glasses, Gloves

MSDS Prepared by: Technical Services

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.