

# 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:** July 24, 2005

**SUPERSEDES:** July 10, 2001

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**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

**DISTRIBUTOR'S NAME**

Same

**ADDRESS (NUMBER, STREET, P.O. BOX)**

**TELEPHONE NUMBER FOR INFORMATION**

**(CITY, STATE AND ZIP CODE)**

**COUNTRY**

**EMERGENCY TELEPHONE NUMBER**

## SECTION 2 - HAZARDOUS INGREDIENTS

**HAZARDOUS COMPONENTS**

**%  
(by weight)**

**CAS #**

**EINECS #**

**Hazard  
Symbol**

**RISK PHRASES**

Full Text Section 16

d-Limonene, Food grade (a)

90

94266-47-4

304-454-3

Xi, N

R-10, 38, 43, 50/53

(a) Product listed by this CAS number is not listed on the Canadian DSL or NDSL, however similar products of other forms, grades or hydration are listed on the DSL or NDSL. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated

(b) This product is not considered a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200), or WHMIS. However, certain regulatory, government, or state agencies may require the listing of this product or the product is listed only for information

## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Water white to pale yellow liquid. Flammable as defined by DOT and TDG for Air / Ocean transport. Classified by DOT as Combustible for ground transport in containers less than 120 gallons. Classified as Combustible by OSHA. Can cause serious or fatal complications if swallowed. Can cause eye and skin irritation upon contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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. Harmful or fatal if swallowed.

**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.

**FIRE FIGHTING PROCEDURES**  
Self - contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**  
Closed containers can explode due to buildup of pressure when exposed to extreme heat.

**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 - 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		
Orange oil, terpenes (a)		Not established				Not established		
Ethoxylated alcohol surfactant (b)		Not established				Not established		
Coconut diethanolamide (b)		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
FLASH POINT 119° F (48.3° C) TCC	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 UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures, 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 MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None
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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
d-Limonene, Food grade (a)	94266-47-4 304-454-3	> 5000 mg / kg Oral - rat	Not established
Orange oil, terpenes (a)	8028-48-6 232-433-8	Not established	Not established
Ethoxylated alcohol surfactant (b)	Not specified Not specified	Not established	Not established
Coconut diethanolamide (b)	Not specified Not specified	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. None of the ingredients in this mixture are classified as a Marine Pollutant.

**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)	IATA HAZARD CLASS / Pack Group: 3 / III
DOT HAZARD CLASS / Pack Group: 3 / III	IMDG HAZARD CLASS: 3
REFERENCE: 49 CFR 173.150, .203, .242	RID/ADR Dangerous Goods Code: 3 (31C)
UN / NA IDENTIFICATION NUMBER: UN 2319	UN TDG Class / Pack Group: 3 / III
LABEL: FLAMMABLE LIQUID	
HAZARD SYMBOLS: F	

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.

**SYMBOL(S) REQUIRED FOR LABEL**

Harmful Environment



**SAFETY PHRASES:**

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.

**HMIS HAZARD RATINGS**

HEALTH	2	* = Chronic Health Hazard	2 = MODERATE
FLAMMABILITY	2	0 = INSIGNIFICANT	3 = HIGH
PHYSICAL HAZARD	0	1 = SLIGHT	4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT B Safety Glasses, Gloves

**REVISION SUMMARY:**

This MSDS has been revised in the following sections: Complete format revision

MSDS Prepared by: Chem-Tel, Inc.  
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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.