



Product Name: ProSolve Liquid  
Revision Date: 11/1/2013

## SAFETY DATA SHEET

<b>SECTION 1</b>	<b>MATERIAL AND MANUFACTURER IDENTIFICATION</b>
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### PRODUCT

*Product Identifier:* ProSolve Liquid  
*Intended Product Use:* Extraction of soil  
*Manufacturer Identification Code:* N/A

### MANUFACTURER

Chemical Technologies International Inc.  
P.O. Box 968  
Rancho Cordova, CA 95741 USA  
Phone: (916) 638-1315 Fax: (916) 638-0712  
24 hours Emergency Assistance Calls (USA): CHEMTREC (800) 424-9300  
*Please reference name and manufacturers identification number*

<b>SECTION 2</b>	<b>HAZARD(S) IDENTIFICATION</b>
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### GHS CLASSIFICATION

**Flammable liquids (Category 2)**  
**Skin irritation (Category 3)**  
**Eye irritation (Category 2A)**  
**Specific target organ toxicity - single exposure (Category 3)**

**Routes of Exposure:** Eye contact, skin contact, Inhalation, and ingestion.

**Inhalation:** Excessive inhalation may cause irritation of the respiratory tract.

**Eye Contact:** Vapors may irritate eyes. Direct or prolonged contact with eyes will be painful and irritating may also cause possible permanent damage.

**Skin Contact:** Repeated exposure may cause skin irritation, drying, chapping.

**Ingestion:** Harmful if swallowed can cause gastrointestinal irritation; including but limited to nausea, vomiting and diarrhea. Seek immediate medical attention. May target Liver and Kidneys if ingested.

**Carcinogenic Potential:** Not established

**Acute Effects:** This product is considered to be a potential irritant. This product should not be used for any other purpose than the intended use in section 1.

**Chronic Effects:** Not established.



Health hazard	2
Flammability hazard	3
Reactivity hazard	0
Other hazard	

Signal word: **DANGER**

Hazard statement(s): **H225 Highly flammable liquid and vapor.**  
**H316 Causes mild skin irritation.**  
**H319 Causes serious eye irritation.**  
**H336 May cause drowsiness or dizziness.**



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<b>SECTION 3</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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COMPONENT	CAS #	CONCENTRATIONS
1. Acetone	67-64-1	75-95%
2. Surfactant	9002-93-1	10-25%
3. D-limonene	111-76-2	1-10%

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<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
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**Inhalation:** Remove from further exposure to fresh air. If respiratory irritation, dizziness, or nausea occurs seek immediate medical attention.

**Eye Contact:** Flush eyes with a directed stream of water for 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes immediately after exposure is essential to achieve maximum effectiveness and minimize potential irritation. If irritation persists, seek immediate medical attention.

**Skin Contact:** Wash contact areas with soap and water. Launder exposed clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting. Seek immediate medical attention.

<b>SECTION 5</b>	<b>FIRE-FIGHTING MEASURES</b>
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#### FLAMMABILITY PROPERTIES

*Flashpoint:* >-4F, closed cup

*Flammable Limits:* N/A

*Auto ignition Temperature:* N/A

#### FIREFIGHTING PROCEDURES

*General Hazard:* During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame.

*Fire Fighting Instructions:* Evacuate all unnecessary personnel. Use dry chemical or CO<sub>2</sub>. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire.

*Fire fighting equipment:* Firefighters should wear NIOSH/MSHA approved self-contained, positive pressure breathing apparatus and full protective clothing.

*Hazardous combustion products:* Hazardous combustion products may include and are not limited to; CO<sub>2</sub>, CO.

<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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#### PERSONAL PRECAUTIONS

Persons performing the clean up should wear personal protective equipment sufficient to keep material away from skin. Avoid direct contact with material. See section 4 for First-Aid Advice. See section 5 for Firefighting Advice.

#### PROTECTIVE MEASURES

To minimize exposure to all chemicals, including this product, use good industrial hygiene and common sense. Use only in well ventilated area. If necessary, use exhaust ventilation to insure adequate ventilation. Insure that water is readily available and that you are prepared to properly wash out your eyes should the need arise. (See section 4 for more advice). Wear NIOSH/MSHA approved organic respirator when ventilation is not adequate or when the sufficiency of ventilation to maintain concentrations below exposure limits is in question. Wear chemical safety goggles to protect against splashes or contact with eyes. See OSHA 29 CFR 1910.33



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## CLEAN-UP PROCEDURES

*Small Spills:* Sweep up and dispose of in DOT approved waste container.

*Large Spills:* Scoop or sweep up and dispose into DOT approved waste container. If possible complete clean up on a dry basis. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste. Contain all spills or leaks to prevent discharge into the environment. All spills or releases need to be reported to the appropriate local, state and federal agencies.

<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
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### HANDLING

This product is professional strength product to be used by professionals only. Avoid breathing vapors of this product. Always keep container tightly closed and properly labels. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling impervious boots/shoes covering should be used if material is anticipated to contact feet. As with all chemicals, practice good industrial hygiene when handling this product. In other words, always work in a well-ventilated area and avoid inhalation of product dust, vapor or mist, do not ingest or have contact with your eyes or skin.

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

### STORAGE

Avoid excessive heat. Avoid storage with oxidizing or reducing agents, acids. Employees should be trained to handle this product safely. Store the product in a cool dry area away from ignition sources. Loosen closures cautiously. Avoid excessive heat. Avoid storage with oxidizing or reducing agents, acids.

*Storage temperature:* store in cool dry place

*Storage pressure:* Atmospheric

<b>SECTION 8</b>	<b>EXPOSURE / PERSONAL PROTECTION</b>
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### EXPOSURE LIMITS

Exposure limits have not been established for this mixture. Avoid, as far as reasonably practicable, inhalation of vapor, mists or fumes generated. However, limits for individual ingredients at 100% concentration by number listed in section 2 are listed below:

COMPONENT #	OSHA PEL TWA STEL	ACGIH TLV TWA STEL	NIOSH TWA STEL
1. Acetone	1000 ppm	500ppm	N/A
2. Surfactant	Contains no substances with occupational exposure limit values.		
3. D-limonene	N/A	165.5 (mg/m3)	N/A

### ENGINEERING CONTROLS

The level of protection and types of control will vary depending upon potential exposure conditions. If user operations generate mist or vapors use adequate ventilation to keep exposure below exposure limit.



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## PERSONAL PROTECTION

*Ventilation and engineering controls:* Use only in well ventilated area. If necessary, use exhaust ventilation to insure adequate ventilation. Insure that water is readily available and that you are prepared to properly wash out your eyes should the need arise. (Refer to section 4).

*Respiratory:* Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA – approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

*Eye Protection:* Wear safety goggles to protect against eye contact. See OSHA 29 CFR 1910.33

*Skin:* Wear chemical impervious gloves. Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

*Other:* One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

*Physical State and Appearance:* Gel

*Odor:* N/A

*Vapor density:* N/A

*Freezing point:* N/A

*Solubility in water:* miscible

*Flammability:* not established

*Evaporation rate:* N/A

*Upper/lower flammability or explosive limits:* N/A

*Odor threshold:* N/A

*Flash point:* N/A

*Evaporation rate:* N/A

*Upper/lower flammability or explosive limits:* N/A

*Vapor pressure:* N/A

*Solubility:* Soluble in water.

*Partition coefficient: n-octanol/water:* N/A

*Color:* Clear

*pH:* 7.0

*Boiling point:* >200F

*Melting point:* N/A

*Density:* N/A

*Particle size:* N/A

*Viscosity:* thick gel

*Vapor pressure:* N/A

*Vapor density:* N/A

*Relative density:* N/A

*Flammability (solid, gas):* N/A

*Decomposition temperature:* N/A

*Vapor density:* N/A

*Auto-ignition temperature:* N/A

## SECTION 10 STABILITY AND REACTIVITY

*Chemical Stability:* Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

*Conditions to avoid:* Keep away from heat or excessive pressure.

*Incompatibility with other materials:* Although the mixture has no known incompatibilities, some **components** of this mixture are not compatible with acids, metals, oxidizing or reducing materials.

*Hazardous decomposition products:* There are no known hazardous decomposition materials of this mixture; some components of this mixture may liberate sulfur dioxide, carbon monoxide, carbon dioxide, and hydrogen sulfide.

*Hazardous polymerization:* Major components of this mixture show no hazardous polymerization.

*Conditions to Avoid:* no anticipated hazards if used as intended



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## SECTION 11 TOXICOLOGICAL INFORMATION

Toxicological information has not been established on this mixture. Toxicological information on components within this mixture is given by:

COMPONENT #	TOXICITY
1. Acetone	LD <sub>50</sub> Oral - rat - 5,800 mg/kg LC <sub>50</sub> Inhalation - rat - 8 h - 50,100 mg/m <sup>3</sup> LD <sub>50</sub> Dermal - guinea pig - 7,426 mg/kg Skin - rabbit - Mild skin irritation - 24 h Eyes - rabbit - Eye irritation - 24 h
2. Surfactant	LD <sub>50</sub> Oral - rat - 1,800 mg/kg LD <sub>50</sub> Dermal - rabbit - 8,000 mg/kg
3. D-limonene	LD <sub>50</sub> Oral - rat - 4,400 mg/kg LD <sub>50</sub> Dermal - rabbit - 5,000 mg/kg

## SECTION 12 ECOLOGICAL INFORMATION

Ecological information not available on this mixture. Ecological information on components within this mixture is given by:

COMPONENT #	TOXICITY
1. Acetone	Not Established
2. Surfactant	Toxicity to fish LC <sub>50</sub> - Pimephales promelas (fathead minnow) – 8.9 mg/l - 96.0 h Toxicity to daphnia and other aquatic invertebrate EC <sub>50</sub> - Daphnia - 26 mg/l - 48 h
3. D-limonene	Not Established

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## SECTION 14 TRANSPORT INFORMATION

This mixture has *no established reportable concentrations* of hazardous or flammable materials regulated by DOT. Not a hazardous material as shipped per 49 CFR table 172.101 Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.



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<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheet (SDS) sheets, training and access to written records. We request that you, as per your legal duty to, make all information in this SDS available to your employees and those who handle or consume the product. To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below

This *mixture* has *no established regulatory information* all regulatory information given is based on individual components of the mixture by component number.

**COMPONENT #**

- |                     |  |
|---------------------|--|
| 1. Acetone          | <b>OSHA Hazards:</b> Flammable liquid, Target Organ Effect, Irritant<br><b>SARA 311/312 Hazards:</b> Fire Hazard, Acute Health Hazard, Chronic Health Hazard |
| 2. Surfactant Blend | <b>OSHA Hazards:</b> Harmful by ingestion., Irritant<br><b>SARA 311/312 Hazards:</b> Acute Health Hazard,  |
| 3. D-limonene       | OSHA: Hazardous by definition of Hazard Communication Standard   |

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
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While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. This SDS summarizes to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources of each individual component. Since CTI cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. Users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product-designated herein, and does not relate to its use in combination with any other material or in any other process.