






# SAFETY DATA SHEET

## 1. Product and Company Identification

<b>PRODUCT NUMBER:</b>	2190	<b>COMPANY PHONE:</b>	1-800-241-8180
<b>PRODUCT NAME:</b>	ECO DEGREASER	<b>EMERGENCY TELEPHONE:</b>	1-800-241-8180
<b>PRODUCT DESCRIPTION:</b>	All Natural Cleaner & Degreaser	<b>INFOTRAC:</b>	1-800-535-5053
<b>COMPANY INFORMATION:</b>	<b>PRO CHEM, INC.</b> 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

## 2. Hazards Identification

<b>GHS CLASSIFICATION:</b> Flammable Liquids: Category 4 H227 Skin Irritant: Category 2 H315 Eye Damage: Category 1 H318 Skin Sensitization: Category 1 H317 Aspiration Toxicity: Category 1 H304 Full text of H statements: See Section 16.	<b>SIGNAL WORD:</b> <b>DANGER</b>	<b>SYMBOL:</b>			
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### HAZARD STATEMENTS:

Combustible liquid.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.

### PRECAUTIONARY STATEMENTS:

**Prevention:** Keep away from heat, open flames, sparks. No smoking. Avoid breathing mist, spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection, protective clothing, protective gloves.  
**Response:** IF SWALLOWED: Immediately call a doctor, a POISON CENTER. Immediately call a doctor, a POISON CENTER. Specific treatment (see First aid measures on this label). Do NOT induce vomiting.  
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IN CASE OF FIRE: Use carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, foam to extinguish.  
**Storage:** Store in a well-ventilated place. Keep cool. Store locked up.  
**Disposal:** Dispose of contents/container to comply with local/regional/national/international regulations.

### HAZARDS NOT OTHERWISE SPECIFIED:

No additional information available.

### UNKNOWN ACUTE TOXICITY:

Not applicable.

## 3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	CONCENTRATION % by WEIGHT	CLASSIFICATION (GHS-US)
(+)-limonene	5989-27-5	10 – 30	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
UNDECETH-5	34398-01-1	5 – 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

## 4. First Aid Measures

### EMERGENCY OVERVIEW

**GENERAL:** If you feel unwell, seek medical advice (show the label where possible).

**EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

**SKIN:** Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of water. Soap may be used. If skin irritation or rash occurs: Get medical advice/attention.

**INHALATION:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**INGESTION:** Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

### MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

**Symptoms/effects:** If you feel unwell, seek medical advice.

**Symptoms/effects after inhalation:** May cause respiratory irritation.

**Symptoms/effects after skin contact:** Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

**Symptoms/effects after eye contact:** Causes serious eye damage.

**Symptoms/effects after ingestion:** May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Nausea. Diarrhea. Vomiting.

**INDICATION OF IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED:**

Treat symptomatically.

**5. Fire Fighting Measures****SUITABLE FIRE EXTINGUISHING MEDIA:**

Foam. Carbon dioxide. Dry chemical powder.

**UNSUITABLE FIRE EXTINGUISHING MEDIA:**

Solid water jet ineffective as extinguishing medium.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:**

Fire Hazard: Treat as an oil fire.

Explosion Hazard: Vapors may travel long distances along ground before igniting/flashing back to vapor source. Rags soaked with any solvent present a fire hazard and should always be stored in UL listed or Factory Mutual approved, covered containers. Improperly stored rags can create conditions that lead to oxidation. Oxidation, under certain conditions, can lead to spontaneous combustion. This product contains antioxidants to retard oxidation.

Reactivity: Upon combustion: CO and CO<sub>2</sub> are formed.**SPECIFIC FIRE-FIGHTING METHODS:**

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:**

Do not enter fire area without proper protective equipment, including respiratory protection.

**6. Accidental Release Measures****GENERAL MEASURES:**

No flames. No sparks. Eliminate all sources of ignition.

**NONEMERGENCY PERSONNEL:**

Protective Equipment: Protective goggles. Gloves. Protective clothing.

Emergency Procedures: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

**EMERGENCY PERSONNEL:**

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Stop release. Ventilate area.

**ENVIRONMENTAL PRECAUTIONS:**

Avoid release to the environment. Prevent entry to sewers and public waters.

**METHODS & MATERIAL FOR CONTAINMENT & CLEANUP:**

For Containment: Contain released substance, pump into suitable containers.

Methods for Cleanup: This material and its container must be disposed of in a safe way and as per local legislation.

**REFERENCE TO OTHER SECTIONS:**

No additional information available.

**7. Handling and Storage****SAFE HANDLING:**

Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin or on clothing.

Hygiene Measures: Wash thoroughly after handling. Wash contaminated clothing before reuse.

**SAFE STORAGE & INCOMPATIBILITIES:**

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Keep container tightly closed.

Incompatible Products: Strong oxidizing agents.

Incompatible Materials: Sources of ignition. Heat source

Storage Area: Meet the legal requirements. Store in a cool area. Store in a well-ventilated place.

Special Rules on Packaging: Keep only in original container.

**8. Exposure Controls / Personal Protection****CONTROL PARAMETERS:**

No additional information available.

**PERSONAL PROTECTIVE EQUIPMENT:**

Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective clothing.

**9. Physical & Chemical Properties**

<b>Physical State:</b>	Liquid.	<b>Explosive Properties:</b>	No data available.
<b>Appearance:</b>	Clear, light yellow liquid.	<b>Oxidizing Properties:</b>	No data available.
<b>Odor:</b>	Citrus scent.	<b>Vapor Pressure:</b>	No data available.
<b>Odor Threshold:</b>	No data available.	<b>Relative Density:</b>	No data available.
<b>pH:</b>	No data available.	<b>Relative Vapor Density @ 20°C:</b>	No data available.
<b>Melting Point:</b>	No data available.	<b>Solubility (water):</b>	Emulsifies in water.
<b>Freezing Point:</b>	No data available.	<b>Log Pow:</b>	No data available.
<b>Boiling Point:</b>	No data available.	<b>Log Kow:</b>	No data available.
<b>Flash Point:</b>	165°F Closed Cup	<b>Auto Ignition Temperature:</b>	No data available.
<b>Relative Evap Rate (butyl acetate=1):</b>	No data available.	<b>Decomposition Temperature:</b>	No data available.
<b>Flammability(solid/gas):</b>	No data available.	<b>Viscosity (kinematic):</b>	<20 cSt

<b>Explosive Limits:</b>	No data available.	<b>Viscosity (dynamic):</b>	No data available.
<b>Specific Gravity:</b>	0.88 g/mL	<b>VOC Content:</b>	<15%

## 10. Stability & Reactivity Information

### REACTIVITY:

Upon combustion: CO and CO<sub>2</sub> are formed.

### CHEMICAL STABILITY:

No additional information available.

### POSSIBILITY OF HAZARDOUS REACTIONS:

Refer to Section 10 on Reactivity.

### CONDITIONS TO AVOID:

No additional information available.

### INCOMPATIBLE MATERIALS:

No additional information available.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological Information

### ACUTE TOXICITY:

Not classified.

#### (+)-limonene (5989-27-5):

LD50 oral rat 4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across).

LD50 dermal rabbit > 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402) ATE CLP (oral) 4400.000 mg/kg body weight.

#### UNDECETH-5 (34398-01-1):

LD50 oral rat > 1400 mg/kg.

### SKIN CORROSION/IRRITATION:

Causes skin irritation.

### SERIOUS EYE DAMAGE/IRRITATION:

Causes serious eye damage.

### RESPIRATORY OR SKIN SENSITIZATION:

May cause an allergic skin reaction.

### GERM CELL MUTAGENICITY:

Not classified.

### CARCINOGENICITY:

Not classified.

#### (+)-limonene (5989-27-5):

IARC group 3: Not classifiable.

### REPRODUCTIVE TOXICITY:

Not classified.

### SPECIFIC TARGET ORGAN TOXICITY (single exposure):

Not classified.

### SPECIFIC TARGET ORGAN TOXICITY (repeated exposure):

Not classified.

### ASPIRATION HAZARD:

May be fatal if swallowed and enters airways.

**Symptoms/injuries after inhalation:** May cause respiratory irritation.

**Symptoms/injuries after skin contact:** Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

**Symptoms/injuries after eye contact:** Causes serious eye damage.

**Symptoms/injuries after ingestion:** May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Nausea.

Diarrhea. Vomiting.

### LIKELY ROUTES OF EXPOSURE:

Skin and eyes contact.

## 12. Ecological Information

### TOXICITY:

#### (+)-limonene (5989-27-5):

LC50 fish 1 720 µg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flowthrough system; Fresh water; Experimental value).

EC50 Daphnia 1 0.36 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value).

Threshold limit algae 1 150 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Read-across).

#### UNDECETH-5 (34398-01-1):

LC50 fish 1 < 10 mg/l

EC50 Daphnia 1 < 10 mg/l

ErC50 (algae) < 10 mg/l

### PERSISTENCE AND DEGRADABILITY:

#### (+)-limonene (5989-27-5):

Persistence and degradability Readily biodegradable in water. Forming sediments in water. Absorbs into the soil.

ThOD 3.29 g O<sub>2</sub>/g substance.

**BIOACCUMULATIVE POTENTIAL:****(+)-limonene (5989-27-5):**

BCF fish 1 864.8 - 1022 (BCF; Pisces).

Log Pow 4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37°C).

Bioaccumulative potential: Potential for bioaccumulation ( $4 \geq \text{Log Kow} \leq 5$ ).**13. Disposal Consideration**

Dispose in a safe manner in accordance with local/national regulations.

**14. Transportation Information****DOT:** Not regulated for transport.**ADDITIONAL INFORMATION:**

No supplementary information available.

**ADR:** No supplementary information available.**TRANSPORT BY SEA:**

No supplementary information available.

**TRANSPORT BY AIR:**

No supplementary information available.

**15. Regulatory Information**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38 (a) subject of the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**UNDECETH-5 (34398-01-1):**

SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard.

**California Proposition 65:** This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.**16. Other Information****TRAINING ADVICE:**

Normal use of this product shall imply use in accordance with the instructions on the packaging.

**FULL TEXT OF H-PHRASES:**

H226: Flammable liquid and vapor.

H227: Combustible liquid.

H302 Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

**DISCLAIMER:**

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.