





# 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> Flam. Liq. 4 H227 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Skin Sens. 1 H317 Asp. Tox. 1 H304 Full text of H-phrases: 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 irritation.

### PRECAUTIONARY STATEMENTS:

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, and protective gloves.  
IF SWALLOWED: Immediately call a doctor, a POISON CENTER.  
IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Do NOT induce vomiting.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
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 (GHS US):

Not applicable.

## 3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	% 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
Polyethylene glycol octylphenyl ether	9036-19-5	1-5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
nonylphenoxy poly(ethyleneoxy) ethanol (9EO)	9016-45-9	1-5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

## 4. First Aid Measures

### EMERGENCY OVERVIEW

**DANGER:** 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. If eye irritation persists: 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 AND EFFECTS (both acute and delayed):**

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

**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 irritation.

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

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**

Treat symptomatically.

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

Foam. Carbon dioxide. Dry chemical powder.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:**

Treat as an oil fire. 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. 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.

**PERSONAL PRECAUTIONS:**

Protective goggles. Gloves. Protective clothing. Evacuate unnecessary personnel. Avoid contact with skin, eyes, and clothing. Ventilate spillage area. Equip cleanup crew with proper protection. Stop leak if safe to do so. Stop release. Ventilate area.

**ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:**

Avoid release to the environment. Prevent entry to sewers and public waters. Contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.

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. Wash thoroughly after handling. Wash contaminated clothing before reuse.

**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 sources.

**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.

**EXPOSURE CONTROLS:**

Use appropriate personal protective equipment when risk assessment indicates this is necessary.

**PERSONAL PROTECTIVE EQUIPMENT:**

Gloves. Safety glasses. Protective clothing.

**9. Physical & Chemical Properties**

<b>APPEARANCE:</b>	Clear, light yellow liquid.	<b>FLAMMABILITY(solid\gas):</b>	No data available.
<b>Physical State:</b>	Liquid.	<b>BOILING POINT:</b>	No data available.
<b>ODOR:</b>	Citrus scent.	<b>FLASH POINT:</b>	165°F Closed Cup
<b>ODOR THRESHOLD:</b>	No data available.	<b>EXPLOSIVE LIMITS:</b>	No data available.
<b>pH:</b>	No data available.	<b>EXPLOSIVE PROPERTIES:</b>	No data available.
<b>MELTING POINT:</b>	No data available.	<b>VAPOR PRESSURE:</b>	No data available.

<b>FREEZING POINT:</b>	No data available.	<b>RELATIVE VAPOR DENSITY(20°C):</b>	No data available.
<b>LOG POW:</b>	No data available.	<b>RELATIVE DENSITY:</b>	No data available.
<b>VISCOSITY:</b>	No data available.	<b>SOLUBILITY:</b>	Emulsifies in water
<b>SPECIFIC GRAVITY/DENSITY:</b>	0.88 g/ml	<b>AUTO-IGNITION TEMP:</b>	No data available.
<b>RELATIVE EVAPORATION RATE (butyl acetate=1):</b>	No data available.	<b>DECOMPOSITION TEMP:</b>	No data available.
<b>VOC:</b>	<15%	<b>OXIDIZING PROPERTIES:</b>	No data available.
<b>LOG KOW:</b>	No data available.	<b>VISCOSITY (kinematic):</b>	< 20 cSt
		<b>VISCOSITY (dynamic):</b>	No data available.

## 10. Stability & Reactivity Information

### REACTIVITY:

Upon combustion: CO and CO2 are formed.

### CHEMICAL STABILITY:

No additional information available.

### POSSIBILITY OF HAZARDOUS REACTIONS:

Refer to Section 10.1 on Reactivity.

### INCOMPATIBLE MATERIALS:

No additional information available.

### CONDITIONS TO AVOID:

No additional information available.

### 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

### SKIN CORROSION/IRRITATION:

Causes skin irritation.

### SERIOUS EYE DAMAGE/IRRITATION:

Causes serious eye irritation.

### 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 irritation.

### SYMPTOMS/INJURIES AFTER INGESTION:

May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Nausea. Diarrhea. Vomiting.

## 12. Ecological Information

### TOXICITY:

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

LC50 fish 1 720 µg/l (96 h; Pimephales promelas; Lethal)

EC50 Daphnia 1 0.36 mg/l (48 h; Daphnia magna; GLP)

LC50 fish 2 702 µg/l (96 h; Pimephales promelas)

Threshold limit algae 1 150 mg/l (72 h; Desmodesmus subspicatus; GLP)

Threshold limit algae 2 2.62 mg/l (72 h; Desmodesmus subspicatus)

#### nonylphenoxypoly(ethyleneoxy)ethanol (9EO) (9016-45-9)

LC50 fish 1 5 mg/l (96 h; Gasterosteus aculeatus; Intermittent flow)

EC50 other aquatic organisms 1 500 mg/l (Selenastrum capricornutum; Chronic)

LC50 fish 2 7 mg/l (96 h; Leuciscus idus)

Threshold limit algae 1 500 mg/l (Selenastrum capricornutum; Cell numbers)

**PERSISTENCE AND DEGRADABILITY:****(+)-limonene (5989-27-5)**

**Persistence and degradability:** Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.

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

**nonylphenoxypoly(ethyleneoxy)ethanol (9EO) (9016-45-9)**

**Persistence and degradability:** Not readily biodegradable in water.

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

BCF fish 1 864.8 - 1022 (Pisces; Fresh weight)

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

**Bioaccumulative potential:** Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

**nonylphenoxypoly(ethyleneoxy)ethanol (9EO) (9016-45-9)**

Log Pow > 4

**13. Disposal Consideration**

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

**14. Transportation Information****DEPARTMENT OF TRANSPORTATION (DOT)**

In accordance with DOT: Not regulated for transport.

**ADDITIONAL INFORMATION:**

Other information: No supplementary information available.

**ADR:** No additional information available.

**TRANSPORT BY SEA:**

No additional information available.

**AIR TRANSPORT:**

No additional 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 to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

**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:**

*Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4*

*Asp. Tox. 1 Aspiration hazard Category 1*

*Eye Dam. 1 Serious eye damage/eye irritation Category 1*

*Eye Irrit. 2A Serious eye damage/eye irritation Category 2A*

*Flam. Liq. 3 Flammable liquids Category 3*

*Flam. Liq. 4 Flammable liquids Category 4*

*Skin Irrit. 2 Skin corrosion/irritation Category 2*

*Skin Sens. 1 Skin sensitization Category 1*

*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*

*H319 Causes serious eye irritation*

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

<b>NFPA</b>	Health Hazards: 2	Flammability: 2	Instability: 0	Physical & Chemical Properties:
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**DISCLAIMER:**

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