

# Material Safety Data Sheet



## THE LEAF PROJECT Heavy Duty Cleaner Concentrate

Rev. 07/16/2001

### Section I: Product Identification

Product name: Heavy Duty Cleaner Concentrate  
Synonym: Detergent  
Molecular Formula: BLENDED PRODUCT

### The "Plain English" Section

Material Safety Data Sheets can be confusing. Federal law requires us to print a great deal of technical information, which probably won't help the non-scientist. ECOLINK and The Leaf Project includes this "PLAIN ENGLISH" section, written to address the questions and concerns of the average person. If you have additional health, safety or product questions, don't hesitate to call us at 800/886-8240. For additional info, visit [www.leafproject.com](http://www.leafproject.com).

**Health Hazards:** This cleaner is formulated to institutional use. We call it "environmentally preferred" because it is intended to replace products that are more hazardous, (harsh caustic cleaners, cleaners containing solvents or other toxic material). Used on a rag or from a spray bottle, the product won't produce fumes, but we do suggest that you use all chemicals with adequate ventilation. For more exposure and first aid information, refer to MSDS Sections II, VI.

**Flashpoint:** This product has a flashpoint greater than 183° F. This represents the temperature the liquid must reach before it emits fumes that will ignite. This is pretty hot, so combustion is not a concern be sure to dispose of rags in an airtight container specifically designed to store soiled rags. Please do not use this, or any other combustible cleaner, around welding or any other hot work area.

**Disposal:** Because this product has a flashpoint above 140° and contains no EPA listed ingredients it is not considered a hazardous waste product. Once it is contaminated with whatever you are cleaning, the resulting mixture may fall under an additional hazardous classification, depending on whether or not the material you are cleaning is hazardous. If you are not sure how to dispose of used Leaf Products, give us a call and we will help you make the right decision.

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[www.leafproject.com](http://www.leafproject.com)  
email: [info@ecolink.com](mailto:info@ecolink.com)  
800/886-8240 or  
770/621-8240 (8-5 EST)

**EMERGENCY NUMBERS**  
800/877-3339 (8-5 EST)  
800/535-5053 (24 HOURS)

### Section II: Chemical or Hazardous Components

This product contains a proprietary blend of vegetable derived esters and fatty acids that exhibit extremely low toxicity.

Chemical Name: D-limonene  
CAS No.: 5989-27-5  
Approx. Wt.%: 5-10%  
Exposure: PEL/TLV:300ppm

For more information on the environmental, health and sustainability characteristics of this product, please visit our website which carries an extensive rating of all Leaf Products, ([www.leafproject.com](http://www.leafproject.com)).

#### ALL MATERIALS IN PRODUCT ARE TSCA LISTED

RCRA REGULATED: No  
CERCLA (superfund): N/A  
DOT Regulated: Not hazardous  
DOT Haz. Class: N/A  
DOT Shipping Name: N/A  
DOT Number: Not listed

(Questions concerning DOT information refer to DOT manual CFR 49, chapter 1, 10/96 edition)

### Section III: Physical Data

Appearance & Odor: Clear orange, pleasantly scented.  
Boiling Point: 214° F  
Evaporation Rate ( H2O = 1): 1  
Solubility In Water: Complete  
Specific Gravity (H2O=1): 1.005  
Vapor Density (AIR=1): <1  
Vapor Pressure (mm Hg): 1

### Section IV: Fire and Explosion Hazard Data

Flash Point (Method):  
Bulk Liquid (TCC) 183° F  
Flammable Limits:  
LEL N/A  
UEL N/A  
Extinguishing Media:  
None required  
Special Fire Fighting Procedures:  
No special procedures required.

Unusual Fire & Explosion Hazards:  
None

## Section V: Reactivity Data

Stability: Stable

Conditions to Avoid:  
Do not mix with bleach.

Incompatibility (Materials to Avoid):  
Strong oxidizing agents and/or strong acids.

Hazardous Decomposition:  
Carbon Monoxide in a fire.

Hazardous Polymerization:  
Will not occur.

## Section VI: Health Hazard Data

Primary Routes of Exposure:  
Oral, inhalation, & skin

Ingestion:  
Swallowing large amounts may be harmful by causing gastrointestinal irritation.

Inhalation:  
N/A

Eyes:  
Irritant. Liquid contact will irritate eyes and may cause stinging, tearing, and redness.

Skin or Contact:  
Prolonged exposure may cause mild irritation.

### First Aid:

Ingestion: Give 1 or 2 glasses of water and induce vomiting as directed by medical personnel. Do not induce vomiting if person is unconscious or convulsing.

Eyes: Irrigate immediately with water for at least 15 minutes. Get medical attention if irritation persists.

Skin: Wash with water. If symptoms persist, seek medical attention

Carcinogen: NTP – Not Listed  
IARC Monographs – None  
OSHA REGS – Not Regulated

## Section VII: Precautions for Safe Handling

HMIS Information:  
Health – 1 / Reactivity – 0  
Flammability – 2 Personal Protection – A

HMIS Definition:  
0 – Minimal, 1 – Slight, 2 – Moderate, 3 – Serious,  
4 – Extreme  
“/” in the Health Category denotes material does not target any major organs.  
“\*” in the Health Category denotes material may target certain organs.

Eye Protection  
Safety glasses are suggested whenever handling any chemicals.

Protective Gloves:  
Rubber gloves recommended.

Respiratory Protection:  
Not required

Ventilation: No special ventilation required.

Other Protective Clothing: None required under normal use.

Work Practices: No special precautions required, but avoid eye contact. Treat this chemical with respect and follow all MSDS instructions.

## Section VIII: Control Measures

Small Spill: Mop up, wet vac, or flush to sewer with water.

Large Spill: Contain spill, and clean up using method described in small spill procedure.

Waste Disposal Method: Dispose of unused material as non-hazardous in compliance with a all state, federal and local chemical waste regulations (incineration, sanitary sewer, or an approved chemical waster hauler). Used material must be tested for contaminants, then disposed of in compliance with state, federal and local regs. Please call us if you need additional disposal information.

Precautions To Be Taken In Handling & Storing: Material should be stored in a cool dry area in a closed container. Read and follow all warnings and safe handling procedures on the MSDS and product label.

Other Precautions: Keep this and all chemicals out of the reach of children.

## Section IX: Part Number & Packaging

<u>Product Name</u>	<u>Part No.</u>	<u>Packaging</u>
Heavy Duty Cleaner Concentrate	1102-55	55 Gal Drum
Heavy Duty Cleaner Concentrate	1102-1	4x1 Gal Case
Heavy Duty Cleaner Concentrate	1102-12	12 Qt Case

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END OF MSDS