

Date Prepared: 04/05/02
Supersedes: 08/01/01
Product Name: 1201 Citrus Cleaner Degreaser

ChemMasters

MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Information

Product Name: 1201 Citrus Cleaner Degreaser

ChemMasters
300 Edwards Street
Madison, Ohio 44057
440-428-2105

In Case of Emergency Contact:
CHEMTREC 800/424-9300

2. Composition / Information on Ingredients

Hazardous Components	CAS #	Exposure Limits			% by Wt
		OSHA(PEL/TWA)	ACGIH (TLV/TWA)	OTHER	
D-Limonene	5989-27-5	—	—	—	90-95 %

3. Hazards Identification

CAUTION

COMBUSTIBLE LIQUID

Causes eye and skin irritation

May cause respiratory tract irritation

Harmful if swallowed

Potential Health Hazards - Acute

Eye: Causes eye irritation. Direct contact with the liquid causes burning, tearing and redness.

Skin: May cause irritation. Prolonged or repeated exposure may cause redness and burning, drying and cracking of the skin.

Inhalation: Excessive concentrations of vapors or mists may cause irritation of the nose and throat.

Ingestion: Liquid is slightly toxic and may be harmful if swallowed.

Potential Health Effects - Chronic

Not applicable

Carcinogenicity:

NTP

NO

IARC Monographs

NO

OSHA Regulated

NO

4. First Aid Measures

Eye: Immediately flush with plenty of clean water.

Skin: Remove contaminated clothing. Clean affected area(s) thoroughly with soap and water.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Get medical attention.

Ingestion: Seek medical attention if large amounts are swallowed.

SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST.

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5. Fire Fighting Measures

Flash Point (method used): 115°F (TCC)

Flammable Limits (% volume in air): **Lower** = 0.7 **Upper** = 6.1 (for Limonene)

Auto Ignition Temperature: No data available

Extinguishing Media: Extinguish with water fog, dry chemical, CO2 or foam.

Hazard Combustion Products: Carbon monoxide

Fire Fighting Instructions: **Flammable.** Do not enter confined fire space without full bunker gear including a positive pressure, NIOSH approved, self-contained breathing apparatus. Cool containers exposed to fire with water.

6. Accidental Release Measures

Spill: Shut off ignition sources. Absorb with inert material, then place in chemical waste container for later disposal.

7. Handling and Storage

Handling: Avoid personal contact with product. Keep liquid away from heat, sparks and flame. "Empty" containers can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize drums to empty them.

Storage: Store containers tightly closed with adequate ventilation in a cool, dry area.

8. Exposure Controls / Personal Protection

Exposure Controls: Mechanical exhaust should be used indoors

Personal Protection: Protective clothing, goggles and rubber gloves

9. Physical and Chemical Properties

Appearance: Clear, yellow liquid of water consistency

Odor: Citrus odor

Boiling Point: >340°F/171°C

Melting Point: Not applicable

Vapor Pressure (mm/Hg): <10 @ 68°F/20°C

Vapor Density (Air = 1): >1.0

Solubility in Water: Complete (100%)

Specific Gravity (H2O = 1): 0.85

Evaporation Rate (n-Butyl Acetate = 1): <1.0

10. Stability and Reactivity

Chemical Stability: Stable

Conditions to Avoid: Heat, sparks and flame

Incompatibility (materials to avoid): None Known

Hazardous Decomposition or By-products: Carbon Monoxide

Hazardous Polymerization: Will not occur

11. Toxicological Information

Components	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Limonene	4400 mg/kg	—	—

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12. Ecological Information

Possible land and water pollutant. No exact data available.

13. Disposal Considerations

Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area.
Under RCRA 40 CFR 261 this material is hazardous waste number D001.

14. Transportation Information

For U S National Shipments ≤ 119 gal containers: Not Regulated

For U S National Shipments > 119 gal containers:

Shipping Description: Combustible Liquid, N.O.S. (D-Limonene), Combustible Liquid, NA1993, III

Hazard Class: Combustible Liquid

For Air and International Shipments:

Shipping Description: Flammable Liquids, N.O.S. (D-Limonene), 3, UN1993, III

Hazard Class: Flammable Liquid

Emergency Response Guide Number: 128

15. Regulatory Information

OSHA: This material is hazardous by definition of Hazardous Communications Standard (29 CFR 1910.1200)

CERCLA Reportable Quantity: The R.Q. for Sulfonic Acid is 1000 pounds. The reportable quantity for this product would be 20000 pounds or 2400 gallons.

SARA Title III:

Section 311/312 hazard categories: N/A

Section 313 reportable ingredients: N/A

Components	CAS #	Maximum %
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16. Other Information

MSDS Status: Revised entire

Industrial Abbreviation Legend on page 4 of this MSDS.

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Industrial Abbreviation Legend

ACGIH	American Conference of Governmental Industrial Hygienists	mg/m ³	milligrams per cubic meter
CAA	Clean Air Act (EPA)	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund) (EPA)	NTP	National Toxicology Program
CNS	Central Nervous System	OSHA	Occupational Safety and Health Administration
CWA	Clean Water Act (EPA)	PEL	Permissible Exposure Limit
DOT	Department of Transportation	ppm	parts per million
EPA	Environmental Protection Agency	RCRA	Resource Conservation and Recovery Act (EPA)
g/kg	grams per kilogram	SARA	EPA's Superfund Amendment and Reauthorization Act (EPA)
IARC	Internal Agency for Research on Cancer	STEL	Short-Term Exposure Limit, ACGIH terminology
LC50	Lethal Concentration in which 50% of the test animals are expected to die	TLV	Threshold Limit Value
LD50	Lethal Dose in which 50% of the test animals are expected to die	TWA	Time-Weighted Average

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