

Material Safety Data Sheet

N/A=Not Applicable

NE=Not Established

Date Prepared: March 8, 2005

PRODUCT IDENTIFICATION

Product Name: Ultra Clean
Generic Name:
Supplier's Name: ChemTrec
Supplier's Address:

Chemical Family: Combustible Liquid
Formula: NA
Phone Number:
Emergency: 800-424-9300

Hazardous Materials Identification

Health	1
Flammability	2
Reactivity	0
Special	NA

MATERIAL IDENTIFICATION AND INFORMATION (HAZARDOUS INGREDIENTS)

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV	CARCINOGEN
D-limonene	5989-27-5	20-40%	NE			

PHYSICAL DATA

Boiling Range: 212 F
Vapor Pressure: NE
% Volatile:
Solubility in Water: Completely soluble
Physical Description: Opaque liquid with citrus odour.

Specific Gravity: 0.9
Vapor Density: NE
pH: 8.5 – 10.5 as is
Evaporation Rate:

REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility (Materials to Avoid): Acids and oxidizing materials
Hazardous Decomposition Products: Carbon monoxide and Carbon dioxide upon thermal decomposition.

FIRE AND EXPLOSION HAZARD DATA

Concentrate Flash Point (Method): 125 F
Explosive Limits
Propellant Flash Point (Method): Upper: NA
Flash Point (Method): Lower: NA
Extinguishing Media: Use method appropriate to primary cause of fire.
Special Fire Fighting Procedures: Avoid contact with fire fighting personnel as burns may result from contact with skin. When fighting a fire near or involving this product, wear a self-contained breathing apparatus (SCBA).
Unusual Fire and Explosion Hazards: Combustible liquid. Avoid heat, sparks and open flame.

STORAGE AND HANDLING

Precautions to be Taken in Handling and Storage: Store away from acids, oxidizing compounds and other incompatible materials. Keep containers tightly closed when not in use. Store away from heat or flames. Do not weld, cut or grind on or near any empty containers as vapors may ignite. Keep out of reach of children.

Other Precautions:

HEALTH HAZARDS AND FIRST AID

Effect of Overexposure: Existing skin and/or respiratory disorders may be aggravated by exposure.

Primary Route of Entry:

Skin: Skin contact may cause irritation while prolonged exposure may cause chemical burns.

Eyes: May cause severe eye irritation with possible permanent eye damage and impairment of vision.

Inhalation: Vapors and mist may cause respiratory tract irritation.

Ingestion: May cause severe gastrointestinal irritation and/or ulceration of the mouth and throat. Single dose oral LD 50 has not been determined.

First Aid Procedures

Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing and shoes before reuse.

Eyes: In case of contact, immediately flush eyes with lots of running water for at least 15 minutes. Call for medical assistance.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen as directed by medical personnel.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. (If available, give several glasses of milk). If vomiting occurs spontaneously, keep airway clear and give more water. Get medical attention immediately.

SPECIAL PROTECTION INFORMATION

Respiratory Protection: Respiratory protection should be worn if levels exceed defined PEL(s) for this product or any hazardous component listed in the Hazardous Ingredient Section of this Data Sheet.

Protective Gloves:

Other Protective Equipment: Impervious protective clothing and chemical resistant safety shoes should be worn to minimize contact. Emergency shower and eyewash facility should be in close proximity. (ANSI Z358.1)

Ventilation: Local exhaust sufficient to maintain TLV below permissible exposure limits.

Eye Protection: Chemical safety splash goggles and full face shield (8" min.) to protect against splashing in compliance with OSHA regulations are advised. OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist) Contact lenses should not be worn when working with any chemicals.

SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Wear proper protective clothing to prevent skin contact and inhalation. Eliminate any sources of ignition. Do not smoke. Small spills may be wiped up. Large spills should be absorbed with inert material and held for disposal.

Waste Disposal Method:

Consult all Local, State, and Federal regulations with regard to proper and suitable disposal methods.

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