

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements

U.S. Department of Labor

Occupation Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY

CLEAN SOL PLUS (250340)

*Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.*

Section I

Manufactured For: Beaver Research Company		Emergency Telephone Number 1-800-255-3924 (Chem Tel)
Address (Number, Street, City, State, and ZIP Code) 3700 E. Kilgore Road, Portage, MI 49002		Telephone Number For Information 269-382-0133
NFPA/HMIS RATINGS: 0=Minimal 3=Serious 1=Slight 4=Severe 2=Moderate	Health: 1	Date Prepared 06/2007
	Flammability: 2	Signature of Preparer (optional)
	Reactivity: 0	

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	TLV	% (optional)
d-limonene	5989-27-5	N/E	95

Section III - Physical/Chemical Characteristics

Boiling Point	212°F	Specific Gravity (H ₂ O = 1)	0.84 +/- 0.02
Vapor Pressure	Unknown	% Volatile	100
Vapor Density	Unknown	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water None	pHs 6		
Appearance and Odor Thin, colorless with a citrus odor.			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) 122°F, (C.C.)	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			
Special Fire Fighting Procedures Avoid contact with this material. Avoid walking in spilled material. Wear protective clothing for skin and eyes.			
Hazardous Products of Combustion Oxides of carbon oxides of nitrogen and ammonia.			

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid	Temperature extremes
	Stable	X		
Incompatibility (Materials to Avoid) Chlorine bleach, oxidizers, acids.				
Hazardous Decomposition or Byproducts None known.				
Hazardous	May Occur		Conditions to Avoid	N/A
Polymerization	Will Not Occur	X		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

Eyes: Exposure may cause noticeable pain and severe irritation and transient corneal injury. **Skin:** Causes chemical burns. Harmful contact may not cause immediate pain. **Inhalation:** Exposure to vapor or mist is possible. Short term inhalation is not likely to cause harmful effects; breathing large amounts may be harmful. Symptoms are more typically seen at air concentrations exceeding the recommended exposure limits. **Ingestion:** Harmful or fatal if swallowed. Causes chemical burns to the mouth, throat and stomach.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure

Gastrointestinal irritation (nausea, vomiting, diarrhea), irritation to nose, throat and respiratory tract.

Target Organ Effects

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals and may aggravate pre-existing disorders or these organs in humans: chronic ingestion may cause kidney and liver lesions at high doses.

Emergency and First Aid Procedure

Skin: Immediately flush with water for 15 minutes. Call physician if irritation persists. Completely decontaminate clothing, shoes and leather goods before reuse or discard. **Eyes:** Immediately flush with water. Remove contact lenses, if applicable, and continue flushing with water for 15 minutes. Call a physician immediately. **Ingestion:** Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water or milk. Call a physician immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing. **Inhalation:** If symptoms develop move victim to fresh air. If symptoms persist, call a physician.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Small spills: Absorb with an inert solid and scoop up for disposal, then rinse soiled area with water down the drain.

Large spills: Stop leak at the source and collect into a suitable container, then treat as a small spill.

Waste Disposal Method

Dispose of in accordance with all applicable Federal, State and Local regulations. **RDRA Information:** If this material becomes a waste, it would be considered hazardous under 40 CFR 261.22 and would be classified as EPA Waste Number D002.

Precautions to be Taken in Handling and Storage

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Store in a cool, dry place. Keep container closed when not in use.

Other Precautions

N/A

Section VIII - Control Measures

Respiratory Protection (Specify Type)

If workplace exposure limits of product or any component are exceeded (see exposure guidelines), NIOSH/OSHA approved air supplied respirator is advised in the absence of proper environmental control. OSHA relations also permit other NIOSH/OSHA respirators (negative pressure type) under specific conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Ventilation	Local Exhaust	Sufficient	Special	N/A
	Mechanical(General)	Sufficient	Other	N/A

Protective Gloves

Rubber

Eye Protection

Chemical splash goggles or faceshield.

Other Protective Clothing or Equipment

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Transport Information

DOT Information 49CFR 172.10 DOT Description: 33440 Class 55

Reportable Quantity (RQ) – 49 CFR 172.101 N/A

N/A=Not Applicable N/E=Not Established

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