

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: R/1220NC
Product Name: Supco D'Limonene Waterless Hand Cleaner w/ Pumice
Company Name: Shepard Bros., Inc. **Phone Number:**
503 S. Cypress St. +1 (562)697-1366
La Habra, CA 90631
Web site address: www.shepardbros.com
Emergency Contact: CHEMTREC +1 (800)424-9300
Product Category: Waterless Hand Cleaner

2. HAZARDS IDENTIFICATION

Flammable Liquids, Category 3
Skin Corrosion/Irritation, Category 3
Skin Sensitization, Category 1
Aquatic Toxicity (Acute), Category 2
Aquatic Toxicity (Chronic), Category 2



GHS Signal Word: Warning

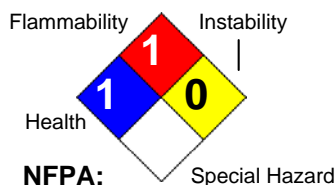
GHS Hazard Phrases: H226 - Flammable liquid and vapor.
H316 - Causes mild skin irritation.
H317 - May cause an allergic skin reaction.
H401 - Toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases: P233 - Keep container tightly closed.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P243 - Take precautionary measures against static discharge.
P242 - Use only non-sparking tools.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P362+364 - Take off contaminated clothing and wash it before reuse.
P273 - Avoid release to the environment.

GHS Response Phrases: P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P332+313 - If skin irritation occurs, get medical advice/attention.
P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.
P391 - Collect spillage.

GHS Storage and Disposal Phrases: P403+235 - Store in cool/well-ventilated place. P501 - Dispose of contents/containers in accordance with local/regional/national/international regulations.

Hazard Rating System:



Potential Health Effects (Acute and Chronic):

Chronic: In 2-year gavage studies, there was clear evidence of carcinogenic activity of d-limonene for male rats, as shown by increased incidences of tubular cell hyperplasia, adenomas, and adenocarcinomas of the kidney. There was NO evidence of carcinogenic activity of d-limonene for female rats, for male mice, or for female mice.

Inhalation:

Slight nasal irritation may occur. May cause respiratory tract irritation.

Skin Contact:

May cause irritation to extra-sensitive skin.

Eye Contact:

Moderately irritating to the eyes.

Ingestion:

Harmful if swallowed. May cause gastrointestinal irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
5989-27-5	Limonene	1.00 - 5.00 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation:

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical attention immediately.

In Case of Skin Contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical aid if irritation develops or persists.

In Case of Eye Contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical aid if irritation develops or persists.

In Case of Ingestion:

Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Note to Physician:

Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt:	NA Method Used: Not Applicable	
Explosive Limits:	LEL: No data.	UEL: No data.
Autoignition Pt:	NA	
Suitable Extinguishing Media:	Foam, CO2, water fog, sand/earth.	
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear.	
Flammable Properties and Hazards:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.	



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6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions: Do not let product enter drains, sewers, watersheds or water systems.

Steps To Be Taken In Case Material Is Released Or Spilled: Spills/Leaks: Provide ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Use as directed. Use with adequate ventilation. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use non-sparking tools.

Precautions To Be Taken in Storing: Store in cool place. Do not store in direct sunlight. Keep away from heat, sparks and flame. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.

Other Precautions: Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
5989-27-5	Limonene	No data.	No data.	No data.

Respiratory Equipment (Specify Type): No special respiratory protection is needed under normal conditions of use.

Eye Protection: Not required under normal use conditions.

Protective Gloves: Not required under normal use conditions.

Other Protective Clothing: Not required under normal use conditions.

Engineering Controls (Ventilation etc.): Ensure adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Appearance: Thick orange gel.
Odor: citrus-like odor.

Melting Point: NA

Boiling Point: NA

Decomposition Temperature: NA

Autoignition Pt: NA

Flash Pt: NA Method Used: Not Applicable

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 0.99 - 1.01

Density: NA



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Bulk density:	NA
Vapor Pressure (vs. Air or mm Hg):	NA
Vapor Density (vs. Air = 1):	NA
Evaporation Rate:	NA
Solubility in Water:	see notes
Solubility Notes:	Complete except pumice.
Saturated Vapor Concentration:	NA
Viscosity:	NA
pH:	8.1 - 9.1
Percent Volatile:	NA
VOC / Volume:	NA
Particle Size:	NA
Heat Value:	NA
Corrosion Rate:	NA

10. STABILITY AND REACTIVITY

Reactivity:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Stability:	Unstable [<input type="checkbox"/>] Stable [<input checked="" type="checkbox"/>]
Conditions To Avoid - Instability:	High temperatures, Ignition sources, Incompatible materials, Direct sunlight.
Incompatibility - Materials To Avoid:	Strong oxidizing agents.
Hazardous Decomposition Or Byproducts:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions:	Will occur [<input type="checkbox"/>] Will not occur [<input checked="" type="checkbox"/>]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: No information available.
	Other Studies: CAS# 5989-27-5: Acute toxicity, LD50, Oral, Rat, 4400 mg/kg Acute toxicity, LD50, Skin, Rabbit, 5gm/kg.
Irritation or Corrosion:	No data available.
Carcinogenicity/Other Information:	CAS# 5989-27-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No



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12. ECOLOGICAL INFORMATION

General Ecological Information: Other: Dipentene, which is optically inactive limonene, is a marine pollutant.

Results of PBT and vPvB assessment: Other Studies: CAS# 5989-27-5:
 LC50, Water Flea (Daphnia magna), 577 ug/L, 48H, Mortality
 LC50, Fathead Minnow (Pimephales promelas), 600 - 800 ug/L, 24H, Mortality

Persistence and Degradability: Limonene can be readily degraded in soil.

Bioaccumulative Potential: May bioconcentrate in aquatic organisms and fish.

Mobility in Soil: Has low mobility in soil and may rapidly volatilize in the atmosphere.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
5989-27-5	Limonene	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
5989-27-5	Limonene	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No

16. OTHER INFORMATION

Revision Date: 07/18/2014

Additional Information About This Product: No data available.

Company Policy or Disclaimer: Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.