



MATERIAL SAFETY DATA SHEET

Date Issued: 06/10/2009

MSDS No: 1500-QT/G/5G/54G

Date Revised: 09/21/2011

Revision No: 2

Eco-Shower

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Eco-Shower

PRODUCT DESCRIPTION: Water-based Degreaser

PRODUCT CODE: 1500-QT/G/5G/54G/EUR1500-LT

MANUFACTURER

Techspray, L.P.
1001 N.W. 1st Street
P.O. Box 949
Amarillo TX 79107

Emergency Contact: Chemtrec

Product Stewardship: 1-800-858-4043

Service Number: 1-800-858-4043

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC CCN#21858 (US Transportation) :(800) 424 - 9300

CANUTEC (Canadian Transportation) :(613) 996 - 6666

Emergency Phone :(800) 858 - 4043

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"Xn" - Harmful

R22 - Harmful if swallowed.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Harmful if swallowed. Aspiration hazard.

POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation.

SKIN: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Absorption through intact skin is possible.

INGESTION: Harmful if swallowed.

INHALATION: No hazard in normal industrial use.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Symptoms of overexposure include: stinging, tearing, redness and pain.

SKIN: Prolonged or exposure may cause skin irritation.

INGESTION: For large amounts; abdominal pain, nausea and vomiting.

INHALATION: Inhalation may cause respiratory tract irritation.

CARCINOGENICITY: NOT listed

3. COMPOSITION / INFORMATION ON INGREDIENTS



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Chemical Name	Wt. %	CAS	EINECS
Alcohols, C10-14, ethoxylated	5 - 15	66455-15-0	xxx-xxx-x*
d-Limonene	1 - 5	5989-27-5	
Alkyl C16-C18 Methyl Esters	1 - 5	67784-80-9	
Includes other hazardous components in non-reportable quantities.	< 3		

4. FIRST AID MEASURES

EYES: Flush eye with water for 15 minutes. Get medical attention.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Aspiration hazard. If swallowed, vomiting may occur spontaneously, but do not induce. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None to boiling point --- TAG CC

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes and oxides of carbon.

FIRE FIGHTING PROCEDURES: Evacuate area and fight fire from a safe distance.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: None Expected.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: SPILLED MATERIAL IS EXTREMELY SLIPPERY. Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces have been removed thoroughly mop and wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth, gravel, etc. as necessary and place in closed containers for disposal.

7. HANDLING AND STORAGE

HANDLING: Contents may develop pressure upon prolonged storage. Loosen closure cautiously before opening. Use only in a well ventilated area.

STORAGE: Do not store near combustible materials.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
d-Limonene	TWA	[1]	[1]	[1]	[1]	[1]	[1]
OSHA TABLE COMMENTS: 1. NL = Not Listed							

ENGINEERING CONTROLS: Mechanical ventilation recommended.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: Oil-resistant gloves

WORK HYGIENIC PRACTICES: Wash hands before eating and wash before reuse.

OTHER USE PRECAUTIONS: Emergency shower and eyewash facility should be in close proximity.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point (°C)	Boiling Point (°C)	Solubility in Water	Specific Gravity
d-Limonene	115	154.4	INSOLUBLE	0.841

PHYSICAL STATE: Liquid

ODOR: Characteristic citrus odor.

COLOR: Straw-colored.

pH: 7 to 8

PERCENT VOLATILE: 99+

Notes: This material contains a slow evaporating soy-based solvent. After complete evaporation, < 1% residue remains.

VAPOR PRESSURE: 0.014 mmHg@20C (VOC Composite Vapor Pressure)

BOILING POINT: 95°C (203°F)

FREEZING POINT: Not Determined

FLASHPOINT AND METHOD: None to boiling point --- TAG CC



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SOLUBILITY IN WATER: Dispersible

DENSITY: ~ 1 at 25°C

(VOC): 3.240 % by weight (EPA)

Notes: 32.4 g/l

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon (CO and CO₂) may form when heated to decomposition.

INCOMPATIBLE MATERIALS: Strong acids and alkalis, reactive metals and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)
d-Limonene	> 5 g/kg	> 5 g/kg

EYES: Moderately to severely irritating

SKIN ABSORPTION: Glycol ingredients may be absorbed through skin.

ORAL LD₅₀: HARMFUL IF SWALLOWED.

EYE EFFECTS: Mixture is a moderate eye irritant.

SKIN EFFECTS: Prolonged exposure may cause irritation and defatting of skin. Those allergic to citrus and soy oils should avoid use.

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status
d-Limonene	NOT LISTED	NOT LISTED	NOT LISTED

IARC: NOT listed

NTP: NOT listed

OSHA: NOT listed

12. ECOLOGICAL INFORMATION



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ENVIRONMENTAL DATA: There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated

PRIMARY HAZARD CLASS/DIVISION: No classification

PACKING GROUP: NA

AIR (ICAO/IATA)

SHIPPING NAME: Not regulated

UN/NA NUMBER: NA

PRIMARY HAZARD CLASS/DIVISION: None

PACKING GROUP: NA

VESSEL (IMO/IMDG)

SHIPPING NAME: Not regulated

UN/NA NUMBER: NA

PRIMARY HAZARD CLASS/DIVISION: None

PACKING GROUP: NA

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: IMMEDIATE / DELAYED

REACTIVITY: No **ACUTE:** Yes **CHRONIC:** Yes

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: None of the ingredients are CERCLA/Superfund hazardous chemicals.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Alcohols,C10-14, ethoxylated	66455-15-0
d-Limonene	5989-27-5



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CLEAN AIR ACT

40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE

PREVENTION: None Expected.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS

CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

CALIFORNIA PROPOSITION 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

CLEAN WATER ACT: None Expected.

CANADA

WHMIS CLASS: Class D2B - Toxic Materials

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION



"Xn" - Harmful

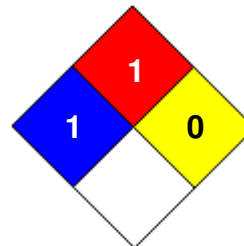
R22 - Harmful if swallowed.

16. OTHER INFORMATION

APPROVED BY: Pierce A. Pillon **TITLE:** Chemist

REVISION SUMMARY: Revision #: 2. This MSDS replaces the May 10, 2011 MSDS.

NFPA CODES



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