

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name ECHO
CAS# Mixture
Product Use Spot remover/cleaner for carpet and fabrics
Manufacturer Powr-Flite, A Division of Tacony Corporation
3101 Wichita Court
Fort Worth, TX 76140-1710
Emergency Telephone Number 1-800-424-9300
Company Contact 1-800-880-2913 or website www.powrflite.com

HMIS LEGEND

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0

Health	2
Flammability	2
Reactivity	0
Personal Protection	B

2. Hazards Identification

Emergency Overview **Warning: Eye and skin irritant. Combustible liquid.**
Potential short term effects
Routes of exposure Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
Eyes Causes irritation.
Skin Contact with skin causes irritation and may cause allergic reaction (sensitization) in some individuals. May be absorbed through skin.
Inhalation May cause respiratory tract irritation, and headache/dizziness.
Ingestion May cause stomach distress, nausea or vomiting.
Target organs Eyes, Skin, Respiratory system.
Chronic effects Prolonged exposure can cause drying, defatting, or dermatitis.
Signs and symptoms Symptoms may include irritation, redness, drying and defatting of the skin. Symptoms of over exposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Hazardous Ingredients

The criteria for listing components in this section are: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. This is not a composition disclosure.

Hazardous Components	CAS#	%(optional)
d-Limonene	5989-27-5	30-60 %

4. First Aid Measures

First Aid Procedures
Eye Contact Flush with cool running water for 15 minutes. Get medical attention immediately.
Skin Contact Flush with cool water, Wash with soap and water, If irritation occurs, get medical attention.
Inhalation If symptoms develop, move to fresh air. If symptoms persist, get medical attention
Ingestion Rinse mouth with water, and then drink one or two glasses of water. **Do not induce vomiting.** Obtain medical attention. Never give anything by mouth to an unconscious person.
Notes to Physician Symptoms may be delayed.
General advice Seek medical attention if feeling unwell. Show the MSDS to the physician in attendance. Avoid contact with eyes and skin. Keep away from sources of ignition. Do not smoke in proximity to product. Keep product out of reach of children.

5. Fire-fighting Measures

Flammable properties	Combustible by OSHA standards.
Extinguishing media	Foam, carbon dioxide, dry chemical.
Protection of firefighters	Firefighters should wear protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and not limited to oxides of carbon.
Unusual Fire, Explosion hazards	None known.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personal away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective clothing. Stay upwind of spills or leaks.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers.
Methods for cleaning up	Remove sources of ignition. Before attempting clean up refer to hazard data given above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or water ways. Contact emergency personnel or supplier for advice. Large spills: wet down with water and dike for later disposal. After removal, flush contaminated area thoroughly with water. Never return spill to original container for reuse.

7. Handling and Storage

Handling	Use good industrial hygiene practices when handling this material
Storage	Keep out of reach of children. Store in a cool dry place at temperatures below 120° F. (49° C.). Store away from incompatible materials.

8. Exposure Controls and Personal Protection

Exposure limits		
Ingredients	OSHA PEL	ACGIH TLV
d-Limonene	not established	not established
Engineering controls	Use only under good ventilation conditions or with respiratory protection.	
Personal protective equipment		
Eye/Face protection	Wear safety glasses with side shields.	
Hand protection	Rubber or nitrile gloves.	
Skin and body	As required by employer code.	
Respiratory protection	Use a NIOSH approved respirator when exposure guidelines are exceeded.	
General hygiene considerations	Handle in accordance with good industrial hygiene practices. Do not eat or drink when using product. Wash hands well before breaks and immediately after handling the product.	

9. Physical and Chemical Properties

Appearance/form	Emulsion
Color	White
Odor	Citrus
pH	Not available
Boiling point	> 212° F.
Specific gravity	0.92-0.96
Evaporation rate	Not available
Vapor pressure	Not available
Vapor density	Not available
Solubility in water	Dispersible
Flash point	> 49° C. (> 120° F.)
VOC	< 60%
% Volatile	Approx. 97%

10. Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Avoid high temperatures.
Incompatible materials	Acids, Oxidizers.
Hazardous decomposition products	May include but not limited to oxides of carbon.
Hazardous polymerization	Will not occur

11. Toxicological Information

Ingredients	LC50
d-Limonene	not available
Ingredients	LD50
d-Limonene	5600 mg/kg mouse, 4400 mg/kg rat
Effects of acute exposure	
Eye	Causes irritation
Skin	Causes irritation and may cause allergic reaction (sensitization in some individuals. May be absorbed through skin.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea, or vomiting.
Sensitization	Contains a potential skin sensitizer.
Chronic effects	Non hazardous
Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, IARC, OSHA.
Mutagenicity	Non hazardous.
Reproductive effects	Non hazardous.
Teratogenicity	Non hazardous.

12. Ecological Information

Eco-toxicity	Components of this product have been identified as having potential environmental concerns.
Eco-toxicity-Freshwater Fish Species data:	
d-Limonene	96 Hr LC 50 Pimephales promelas: 0.62-0.80 mg/L
Environmental effects	Not Available
Aquatic toxicity	Not Available
Persistence and Degradability	Not Available
Bioaccumulation/accumulation	Not Available
Partition coefficient	Not Available
Mobility in environmental media	Not Available
Chemical fate information	Not Available
Other adverse effects	Not Available

13. Disposal Considerations

Waste codes	Not Available
Disposal instructions	Dispose in accordance with local, state, and federal regulations
Wastes from residues/unused product	Containerize. Rinse area with water. Keep out of storm sewer/waterways.
Contaminated packaging	Dispose in accordance with all applicable regulations.

14. Transport Information

Basic shipping requirements:

Proper shipping name	Flammable liquid, n.o.s. (d-Limonene)
Hazard class	3
UN number	1993
Packing group	III
Special provisions	Reclassified as combustible for land shipments.
Packaging exceptions	

15. Regulatory Information

U.S federal regulations This product has been classified in accordance with the Occupational Safety and Health Administration hazard criteria and the MSDS contains all of the information required by OSHA.

HMIS classification Combustible liquid, irritant

Inventory Status

Countries	Inventory Name	On Inventory (Yes/No)*
U.S.	Chemical Inventory List	Yes
Canada	Domestic substances list	Yes

- A "Yes" indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.

16. Other Information

Disclaimer

To the best of our knowledge, the information included herein is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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April 4, 2014

Supersedes date

March 1, 2011

Reason for update

Conform to OSHA update requirements

Expiration date

April 4, 2017