

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name MARKSMEN
CAS# Mixture
Product Use Acidic rinse 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
Telephone Information 1-800-880-2913 or website www.powrflite.com

HMIS LEGEND

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0

Health 2
Flammability 0
Reactivity 0
Personal Protection B

2. Hazards Identification

Emergency Overview **Warning: Eye and skin irritant**
Potential short term effects
Routes of exposure Eye, Skin contact, Inhalation, Ingestion.
Eyes Causes irritation.
Skin Contact with skin may cause severe irritation.
Inhalation May cause respiratory tract irritation, and headache/dizziness.
Ingestion May cause stomach distress, nausea or vomiting.
Target organs Eyes, Skin, Mucous membrane
Chronic effects Prolonged exposure can cause drying, defatting, or dermatitis.
Signs and symptoms Symptoms may include irritation, redness, scratching of the cornea and tearing.
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)
Ingredients are not considered hazardous per 29 CFR 1910.1200		

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 persists, get medical Attention.
Inhalation If symptoms develop, move to fresh air. If symptoms persist, get medical attention
Ingestion Rinse mouth with water. 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.

5. Fire-fighting Measures

Flammable properties	Not flammable
Extinguishing media	Treat for surrounding material.
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	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. 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. Keep from freezing, store in a cool dry place away from incompatible materials.

8. Exposure Controls and Personal Protection

Exposure limits		
Ingredients	OSHA PEL	ACGIH TLV
Citric acid	not established	TWA: 10mg/m ³
Engineering controls	Use only under good ventilation conditions or with respiratory protection.	
Personal protective equipment		
Eye/Face protection	Wear chemical goggles, 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	Clear liquid
Color	Light straw to colorless
Odor	Slight organic
pH	1.95-2.05 (100%)
Boiling point	> 212° F.
Specific gravity	1.01-1.05
Evaporation rate	Not available
Vapor pressure	Not available
Vapor density	Not available
Solubility in water	Complete
Flash point	None
VOC	< 1%
% Volatile	Approx. 90%

10. Stability and Reactivity

Chemical Stability	Stable under normal storage conditions.
Conditions to avoid	Reacts violently with alkaline materials. Do not mix with other chemicals.
Incompatible materials	Bases, reducing agents, oxidizers and metals.
Hazardous decomposition products	May include but not limited to oxides of carbon.
Hazardous polymerization	Will not occur

11. Toxicological Information

Ingredients	LC50
Citric acid	not available
Ingredients	LD50
Citric acid	5040 mg/kg mouse, 3000 mg/kg rat
Effects of acute exposure	
Eye	Causes irritation
Skin	May cause severe irritation.
Inhalation	May cause respiratory tract irritation, and central nervous system effects (headaches, dizziness)
Ingestion	May cause stomach distress, nausea, or vomiting.
Sensitization	Non hazardous.
Chronic effects	Non hazardous.
Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, IARC, or 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. The low pH of the product would be expected to produce significant eco-toxicity upon exposure to aquatic organisms.
Eco-toxicity-Freshwater Fish Species data:	
Citric acid	96 Hr LC 50 <i>Lepomis macrochirus</i> : 1516 mg/l 96 Hr LC 50 <i>Leuciscus idus</i> : 440 mg/L
Eco-toxicity-Microtox data:	
Citric acid	15 min EC50 <i>Photobacterium phosphoreum</i> : 14 mg/L
Eco-toxicity-Water flea data:	
Citric acid	72 Hr EC50 <i>Daphnia magna</i> : 120 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: Not DOT regulated
Proper shipping name
Hazard class
UN number
Packing group
Special provisions
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 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

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November 15, 2010

Reason for update

Conform to OSHA update requirements

Expiration date

April 4, 2017