

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name BRAVO
CAS# Mixture
Product Use Water based spot remover 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	Health	2
Serious	3	Flammability	0
Moderate	2	Reactivity	0
Slight	1	Personal Protection	B
Minimal	0		

2. Hazards Identification

Emergency Overview Warning: Eye and skin irritant
Potential short term effects
Routes of exposure Eye, Skin contact, Inhalation, Ingestion.
Eyes May cause eye irritation.
Skin Contact with skin may cause irritation.
Inhalation May cause respiratory tract irritation.
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)
Sodium alkyl naphthalene sulfonate	26264-58-4	< 10%
Tetra potassium pyrophosphate	7320-34-5	< 5%
Dipropylene glycol monomethyl ether	34590-94-8	< 8%

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
General advice

Symptoms may be delayed.
Seek medical attention if feeling unwell. Show the MSDS to the physician in

5. Fire-fighting Measures

Flammable properties	> 200° F. (93° C.)
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 and nitrogen, oxides of sulfur and phosphorous.
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. Large spills should be diked for later disposal. After removal, thoroughly rinse area with water. 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
Sodium alkyl naphthalene sulfonate	Not available	Not available
Tetra potassium pyrophosphate	Not available	TWA 5mg/m ³
Dipropylene glycol monomethyl ether	Not available	TWA 100ppm. STEL 150ppm.
Engineering controls	General ventilation normally required.	
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 tan to colorless
Odor	Fresh air
pH	9.6-10.0 (100%)
Boiling point	> 212° F.
Specific gravity	1.07-1.08
Evaporation rate	Not available
Vapor pressure	Not available

Vapor density	Not available
Solubility in water	Complete
Flash point	> 200° F. (93° C.)
VOC	< 8%
% Volatile	Approx. 84%

10. Stability and Reactivity

Chemical Stability	Stable under normal storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Acids, oxidizers .
Hazardous decomposition products	May include but not limited to oxides of carbon, oxides of nitrogen, oxides of phosphorous, and oxides of sulfur when heated to decomposition.
Hazardous polymerization	Will not occur

11. Toxicological Information

Ingredients	LC50
Sodium alkyl naphthalene sulfonate	Not available
Tetra potassium pyrophosphate	Not available
Dipropylene glycol monomethyl ether	Not available
Ingredients	LD50
Sodium alkyl naphthalene sulfonate	5620 mg/kg oral, rat
Tetra potassium pyrophosphate	4000 mg/kg oral, rat
Dipropylene glycol monomethyl ether	5400 mg/kg oral, rat
Effects of acute exposure	
Eye	May cause irritation
Skin	May cause irritation.
Inhalation	May cause respiratory tract irritation.
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, 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:	
Dipropylene glycol monomethyl ether	96 Hr LC50 Pimephales promelas: 10000 mg/L
Eco-toxicity-Water flea data:	
Dipropylene glycol monomethyl ether	48 Hr LC50 Daphnia magna: 1919 mg/L
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Environmental effects	Not Available
Aquatic toxicity	Expected to be moderately toxic to aquatic organisms
Persistence and Degradability	The phosphate may persist indefinitely or incorporate into biological systems.
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.
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HMIS classification	Irritant
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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.

Issue date

April 4, 2014

Supersedes date

March 1, 2011

Reason for update

Conform to OSHA update requirements

Expiration date

April 4, 2017