



**Power-foam BRAVO Heavy Duty Stripper for Spot Buildups**

HMIS		NFPA	Personal protective equipment
Health	3	3	
Fire Hazard	4	4	
Reactivity	0	0	

Version Number: 1

Preparation date: 2011-01-06

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Power-foam BRAVO Heavy Duty Stripper for Spot Buildups

**MSDS #:** MS0300787

**Product Code:** 4966769

**Recommended use:** Industrial/Institutional. Floor care.

**Manufacturer, importer, supplier:**

US Headquarters  
 Diversey, Inc.  
 8310 16th St.  
 Sturtevant, Wisconsin 53177-1964  
 Phone: 1-888-352-2249  
 MSDS Internet Address: www.diversey.com

Canadian Headquarters  
 Diversey, Inc. - Canada, Inc.  
 2401 Bristol Circle  
 Oakville, Ontario L6H 6P1  
 Phone: 1-800-668-3131

**Emergency telephone number:** 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

DANGER. CORROSIVE. CAUSES SKIN AND EYE BURNS. HARMFUL OR FATAL IF SWALLOWED. CONTENTS UNDER PRESSURE.

**Principal routes of exposure:**

Eye contact. Skin contact. Inhalation. Ingestion.

**Eye contact:**

Corrosive. Causes permanent eye damage, including blindness.

**Skin contact:**

Corrosive. Causes permanent damage.

**Inhalation:**

May cause irritation and corrosive effects to nose, throat and respiratory tract.

**Ingestion:**

Corrosive. Causes burns to mouth, throat and stomach.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat (mg/kg)	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Benzyl alcohol	100-51-6	0.1 - 1.5%	1230	=2000 mg/kg	=8.8 mg/L (4 h)
2-butoxyethanol	111-76-2	1 - 5%	470	=220 mg/kg	=2.21 mg/L (4 h) =450 ppm (4 h)
Diethylene glycol butyl ether	112-34-5	1 - 5%	3384	=2700 mg/kg	Not available
Potassium hydroxide	1310-58-3	1 - 5%	214	Not available	Not available
Monoethanolamine	141-43-5	1 - 5%	1720	=1 mL/kg =1025 mg/kg	Not available
Isobutane	75-28-5	5 - 10%	Not available	Not available	=658 mg/L (4 h)

**4. FIRST AID MEASURES**

**Eye contact:**

Immediately flush eyes with running water for 15-20 minutes, keeping eyelids open. Get medical attention immediately.

**Skin contact:**

Immediately flush with plenty of water for 15-20 minutes. Get medical attention immediately.

**Inhalation:** If breathing is affected, remove to fresh air. Get medical attention immediately.  
**Ingestion:** If swallowed, rinse mouth. Give a cupful of water or milk. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.  
**Aggravated Medical Conditions:** Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Use dry chemical, CO2, water spray or "alcohol" foam.  
**Specific hazards:** Aerosol product - Containers may rocket or explode in heat of fire. NFPA 30B Level 1 Aerosol .  
**Unusual hazards:** Corrosive material (See sections 8 and 10).  
**Specific methods:** Aerosol Product - Containers may rocket or explode in heat of fire. Use water spray to keep fire-exposed containers cool.  
**Autoignition temperature:** No information available.  
**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.  
**Extinguishing media which must not be used for safety reasons:** No information available.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Put on appropriate personal protective equipment (see Section 8.).  
**Environmental precautions and clean-up methods:** Clean-up methods - large spillage. Remove all sources of ignition. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Use a water rinse for final clean-up.

**7. HANDLING AND STORAGE**

**Handling:** Avoid contact with skin, eyes and clothing. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. Do not let product overspray on to the floor as the product's ingredients could make the floor slippery. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.  
**Storage:** NFPA 30B Level 1 Aerosol . Protect from freezing. Store in a cool, dry, well ventilated area away from heat or open flame. Do not pierce or burn, even after use . KEEP OUT OF REACH OF CHILDREN.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering measures to reduce exposure:** Good general ventilation should be sufficient to control airborne levels Respiratory protection is not required if good ventilation is maintained.

**Personal Protective Equipment**

**Eye protection:** Chemical-splash goggles.  
**Hand protection:** Chemical-resistant gloves  
**Skin and body protection:** Protective footwear. If major exposure is possible, wear suitable protective clothing and footwear.  
**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.  
**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
2-butoxyethanol	111-76-2	20 ppm (TWA)	Skin 50 ppm (TWA) 240 mg/m <sup>3</sup> (TWA)	75 ppm (STEL) 360 mg/m <sup>3</sup> (STEL) 26 ppm (TWA) 120 mg/m <sup>3</sup> (TWA)
Potassium hydroxide	1310-58-3	2 mg/m <sup>3</sup> (Ceiling)		
Monoethanolamine	141-43-5	6 ppm (STEL) 3 ppm (TWA)	3 ppm (TWA) 6 mg/m <sup>3</sup> (TWA)	6 ppm (STEL) 15 mg/m <sup>3</sup> (STEL) 3 ppm (TWA) 8 mg/m <sup>3</sup> (TWA)
Isobutane	75-28-5	1000 ppm (TWA)		

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Pressurized Liquid  
**Appearance:** Aerosol  
**Specific gravity:** 0.99  
**Vapor density:** No information available  
**Boiling point/range:** Not determined  
**Decomposition temperature:** Not determined  
**Solubility:** Completely Soluble  
**Solubility in other solvents:** No information available  
**Partition coefficient (n-octanol/water):** No information available  
**Elemental Phosphorus:** 0.06 % by wt.  
**pH:** 13.0

**Bulk density:** No information available  
**Evaporation Rate** No information available  
**Color:** Clear White  
**Odor:** Solvent  
**Melting point/range:** Not determined  
**Autoignition temperature:** No information available  
**Density:** 8.26 lbs/gal 0.99 Kg/L  
**Flash point:** 19 °F -7.0 °C  
**Viscosity:**No information available  
**VOC:** 10.67 % \*  
**Dilution pH:** N/A @ RTU

**Flame Extension (inches):** 0  
**Explosion limits: - upper:** Not determined - **lower:** Not determined

\* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

## 10. STABILITY AND REACTIVITY

**Stability:** The product is stable  
**Polymerization:** Hazardous polymerization does not occur.  
**Hazardous decomposition products:** None known.  
**Materials to avoid:** Acids.  
**Conditions to avoid:** Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Corrosive. Oral LD50 estimated to be between 2000 - 3000 mg/kg; Dermal LD50 estimated to be > 2000 mg/kg.  
**Component Information:** See Section 3  
**Chronic toxicity:** None known  
**Specific effects**  
**Carcinogenic effects:** None known  
**Mutagenic effects:** None known  
**Reproductive toxicity:** None known  
**Target organ effects:** None known

## 12. ECOLOGICAL INFORMATION

**Environmental Information:** No data available

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**  
Dispose of according to all federal, state and local applicable regulations. Use up contents if possible before disposal . If possible, recycle empty aerosol cans to the nearest steel recycling center . Undiluted product is regulated under environmental and transportation laws as an ignitable waste .

## 14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

## 15. REGULATORY INFORMATION

### International Inventories at CAS# Level

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

### U.S. Regulations

**California Proposition 65:** This product is not subject to the reporting requirements under California's Proposition 65

**RIGHT TO KNOW (RTK)**

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Benzyl alcohol	100-51-6	X	-	X	-
2-butoxyethanol	111-76-2	X	X	X	X
Diethylene glycol butyl ether	112-34-5	-	X	-	-
Potassium hydroxide	1310-58-3	X	X	X	X
Monoethanolamine	141-43-5	X	X	X	X
Water	7732-18-5	-	-	-	-
Ethoxylated secondary alcohol	84133-50-6	-	-	-	-
Isobutane	75-28-5	X	X	X	-

**CERCLA/ SARA**

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
2-butoxyethanol	111-76-2	1 - 5%			X
Diethylene glycol butyl ether	112-34-5	1 - 5%			X
Potassium hydroxide	1310-58-3	1 - 5%	1000		

Ingredient(s)	CAA HAP	CAA ODS	CWA Priority Pollutants
2-butoxyethanol	X		
Diethylene glycol butyl ether	X		

**SARA 311/312 Hazard Categories**

**Immediate:** X  
**Delayed:** -  
**Fire:** X  
**Reactivity:** -  
**Sudden Release of Pressure:** X

**Canada**

**WHMIS hazard class:** A Compressed gases, E Corrosive material .



Ingredient(s)	CAS #	NPRI
Diethylene glycol butyl ether	112-34-5	X

**16. OTHER INFORMATION**

**Reason for revision:** Not applicable  
**Prepared by:** NAPRAC  
**Additional advice:** None

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