



BRAVO Power-foam Heavy Duty Stripper for Spot Buildups

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

Version Number: 2

Preparation date: 2007-01-02

1. PRODUCT AND COMPANY IDENTIFICATION

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

MSDS #: MS0200059

Product Code: 04640

Recommended use: Floor care.

Manufacturer, importer, supplier:

US Headquarters JohnsonDiversey, Inc. 8310 16th St. Sturtevant, Wisconsin 53177-0902 Phone: 1-888-352-2249 MSDS Internet Address: www.johnsondiversey.com	Canadian Headquarters JohnsonDiversey - Canada, Inc. 2401 Bristol Circle Oakville, Ontario L6H 6P1 Phone: 1-800-668-3131
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Emergency telephone number: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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

Principle routes of exposure: Eye contact. Skin contact. Inhalation.

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

HAZARDOUS COMPONENTS

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
2-butoxyethanol	111-76-2	5 - 10%	470 mg/kg	220 mg/kg	2.21 mg/L (4 h); 450 ppm (4 h)
Sodium hydroxide	1310-73-2	1 - 5%	Not available	1350 mg/kg	Not available
Monoethanolamine	141-43-5	1 - 5%	1720 mg/kg	1 mL/kg	Not available
Sodium metasilicate	6834-92-0	1 - 5%	600 mg/kg	Not available	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: Persons with pre-existing skin disorders 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. Keep product and empty container away from heat and sources of ignition. NFPA 30B Level 1 Aerosol.

Unusual hazards: Corrosive material (See sections 8 and 10).

5. FIRE-FIGHTING MEASURES

Specific methods: Aerosol Product - Containers may rocket or explode in heat of fire. Use water spray to keep fire-exposed containers cool.

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: Use personal protective equipment
Environmental precautions and clean-up methods: Remove all sources of ignition. 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. Keep away from open flames, hot surfaces and sources of ignition. CONTENTS UNDER PRESSURE. Do not puncture or incinerate. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Storage:

Store in a cool, dry, well ventilated area away from heat or open flame. Protect from freezing. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 degrees C or 120 degrees F. Do not pierce or burn, even after use. Keep tightly closed in a dry, cool and well-ventilated place. KEEP OUT OF REACH OF CHILDREN. NFPA 30B Level 1 Aerosol

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 240 mg/m ³ (TWA) 50 ppm (TWA)	75 ppm (STEL) 360 mg/m ³ (STEL) 120 mg/m ³ (TWA) 26 ppm (TWA)
Sodium hydroxide	1310-73-2	2 mg/m ³ (Ceiling)	2 mg/m ³ (TWA)	2 mg/m ³ (Ceiling)
Monoethanolamine	141-43-5	6 ppm (STEL) 3 ppm (TWA)	3 ppm (TWA) 6 mg/m ³ (TWA)	6 ppm (STEL) 15 mg/m ³ (STEL) 3 ppm (TWA) 8 mg/m ³ (TWA)
Isobutane	75-28-5	1000 ppm (TWA)		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Aerosol	Bulk density:	No information available
pH:	13.0	Dilution pH:	No information available.
Appearance:	Aerosol	Vapor density:	No information available
Color:	Clear	Evaporation Rate	No information available
Odor:	Solvent	Boiling point/range:	Not determined
Specific gravity:	0.99	Melting point/range:	Not determined
Density:	8.24 lbs/gal	Decomposition temperature:	Not determined
VOC:	15.85% *	Autoignition temperature:	No information available
Flash point:	<20°F <-7°C	Partition coefficient (n-octanol/water):	No information available
Solubility:	completely soluble	Solubility in other solvents:	No information available
Viscosity:	No information available		

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	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

HAZARDOUS COMPONENTS

Ingredient(s)	CAS #	NTP	IARC	OSHA
2-butoxyethanol	111-76-2		3	

12. ECOLOGICAL INFORMATION

Environmental Information:	No data available
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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Undiluted product is regulated under environmental and transportation laws as a corrosive waste. Undiluted product is regulated under environmental and transportation laws as an ignitable waste . If possible, recycle empty aerosol cans to the nearest steel recycling center .

RCRA Hazard Class: D001, D002

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

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL), Australia (AICS), Korea (ECL), Philippines (PICCS), China (IECSC).

U.S. Regulations

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

STATE RIGHT TO KNOW

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
2-butoxyethanol	111-76-2	X	X	X	X
Sodium hydroxide	1310-73-2	X	X	X	X
Monoethanolamine	141-43-5	X	X	X	X
Sodium metasilicate	6834-92-0	-	-	-	-
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	5 - 10%			X
Sodium hydroxide	1310-73-2	1 - 5%	1000		

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
2-butoxyethanol	111-76-2	X

16. OTHER INFORMATION

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

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