



# BRAVO 1500+

National Fire Protection Association (NFPA)	Fire Hazard		Hazardous Material Information System (HMIS)	Health	3	
	Health			3	Fire Hazard	0
	Reactivity			0	Reactivity	0
Protective Clothing				Emergency Overview		
		Specific Hazard		Clear Liquid. See Section 9. DANGER. CORROSIVE. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED.		

Section 1. Chemical Product and Company Identification			
Product Name	<b>BRAVO 1500+</b>	Code	4638 & 4639 & 4642
Product Use	Industrial/Institutional: Floor cleaning.	PMS#	453405
MSDS#	114641001	Validation Date	12/9/2003
U.S. Headquarters	JohnsonDiversey, Inc. 8310 16th Street Sturtevant, Wisconsin 53177-0902 Phone: (888) 352-2249 MSDS Internet Address: www.johnsondiversev.com	Canadian Headquarters	JohnsonDiversey - Canada, Inc. 2401 Bristol Circle Oakville, Ontario L6H 6P1 Phone: 1-800-668-3131
		Print Date	12/9/2003
		Supersedes	10/23/2003.
		In Case of Emergency	(800) 851-7145

Section 2. Composition and Information on Ingredients				
Ingredients	CAS #	% by Weight	Exposure Limits	LC50/LD50
Sodium Hydroxide	1310-73-2	1-5	<b>OSHA (United States).</b> CEIL: 2 mg/m <sup>3</sup> <b>ACGIH (United States).</b> STEL: 2 mg/m <sup>3</sup>	Not available.
Sodium Xylene Sulfonate	1300-72-7	1-5	Not available.	Not available.
Monoethanolamine	141-43-5	1-5	<b>OSHA (United States).</b> TWA: 8 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup> <b>ACGIH (United States).</b> TWA: 7.5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	ORAL (LD50): Acute: 1720 mg/kg [Rat]. DERMAL (LD50): Acute: 1018 mg/kg [Rabbit].
2-Butoxyethanol	111-76-2	10-30	<b>OSHA (United States).</b> TWA: 120 mg/m <sup>3</sup> <b>ACGIH (United States).</b> TWA: 97 mg/m <sup>3</sup>	ORAL (LD50): Acute: 506 mg/kg [Rat]. DERMAL (LD50): Acute: 406 mg/kg [Rabbit]. VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat].
Water	7732-18-5	60-100	Not available.	Not available.

Section 3. Hazards Identification	
Routes of Entry	Eye contact. Inhalation. Skin contact
Potential Acute Health Effects	<p><i>Eyes</i> Corrosive. May cause permanent damage including blindness.</p> <p><i>Skin</i> Corrosive. May cause permanent damage.</p> <p><i>Inhalation</i> May cause irritation and corrosive effects to nose, throat and respiratory tract.</p> <p><i>Ingestion</i> Corrosive. May cause burns to mouth, throat and stomach.</p>

**Medical Conditions Aggravated by Overexposure:** Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

See Toxicological Information (section 11)

**Section 4. First Aid Measures**

**Eye Contact** Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

**Skin Contact** Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

**Inhalation** If breathing is difficult: Remove to fresh air. Get medical attention immediately.

**Ingestion** Do not induce vomiting! Immediately drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Section 5. Fire Fighting Measures**

**Flammability of the Product** None known.

**Flash Points** Not available.

**Products of Combustion** None known.

**Fire Fighting Media and Instructions** Extinguish with water spray or carbon dioxide, dry chemical powder or appropriate foam. Normal fire fighting procedure may be used.

**Protective Clothing (Fire)** Put on appropriate personal protective equipment (see Section 8).

**Special Remarks on Fire and Explosion Hazards** Corrosive material (See sections 8 and 10).

**Section 6. Accidental Release Measures**

**Personal Precautions** Put on appropriate personal protective equipment (see Section 8).

**Environmental Precautions and Clean-up Methods** In the event of major spillage: Use appropriate containment to avoid environmental contamination. Sweep or scrape up material. Place in suitable clean, dry containers for disposal by approved methods. Use a water rinse for final clean-up.

**Section 7. Handling and Storage**

**Handling** Avoid contact with eyes, skin and clothing. Do not taste or swallow. Avoid breathing vapors or spray mists. Wash thoroughly after handling. Remove and wash contaminated clothing and footwear before re-use. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. **FOR COMMERCIAL AND INDUSTRIAL USE ONLY.**

**Storage** Store in a dry, cool and well-ventilated area. Protect from freezing. Keep container tightly closed. **KEEP OUT OF REACH OF CHILDREN.**

**Section 8. Exposure Controls/Personal Protection**

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

**Personal Protection**

*Eyes* Chemical splash goggles.

*Hands* Chemical resistant gloves. Includes: Neoprene gloves.

*Respiratory* If mists/vapors are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over exposure. 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.

*Feet* Protective footwear.

*Body* If major exposure is possible, wear suitable protective clothing and footwear.

**Section 9. Physical and Chemical Properties**

Physical State and Appearance	Liquid.
Odor	Characteristic.
Color	Clear
pH	>13 [Basic.]
Specific Gravity	1
Boiling/Condensation Point	100°C (212°F)
Melting/Freezing Point	-16°C (3.2°F)
VOC	18 %
Solubility in water	Complete.

**Section 10. Stability and Reactivity**

Stability and Reactivity	The product is stable.
Conditions of Instability	None known.
Incompatibility with Various Substances	Reactive with acids.
Hazardous Decomposition Products	When exposed to fire: Produces normal products of combustion.
Hazardous Polymerization	Will not occur.

**Section 11. Toxicological Information**

Acute toxicity	Corrosive.
Effects of Chronic Exposure	None known.
Other Toxic Effects	None known.

**Section 12. Ecological Information**

Not available.

**Section 13. Disposal Considerations**

Waste Information	Undiluted product is regulated under environmental and transportation laws as a corrosive waste. Dispose of according to all federal, state and local applicable regulations
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**Section 14. Transport Information**

<b>DOT Classification</b>	
DOT Proper Shipping Name	Please refer to the Bill of Lading/receiving documents for up to date shipping information.
<b>TDG Classification</b>	
TDG Proper Shipping Name	Please refer to the Bill of Lading/receiving documents for up to date shipping information.
TDG Class	

**Section 15. Regulatory Information**

**Reporting in this section is based on ingredients disclosed in Section 2**

**US Regulations**

**Federal** SARA 302/304/311/312 hazardous chemicals: Monoethanolamine, Sodium hydroxide, 2-Butoxyethanol  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Monoethanolamine, Sodium hydroxide, 2-Butoxyethanol  
 SARA 313 toxic chemical notification and release reporting: 2-Butoxyethanol  
 Clean Water Act (CWA) 311: Sodium hydroxide  
 CERCLA: Hazardous substances.: Sodium hydroxide, 2-Butoxyethanol

**State** New Jersey spill list: Sodium hydroxide, 2-Butoxyethanol  
 New Jersey: Monoethanolamine, Sodium hydroxide, 2-Butoxyethanol  
 Massachusetts spill list: Monoethanolamine, Sodium hydroxide, 2-Butoxyethanol  
 Massachusetts RTK: Monoethanolamine, Sodium hydroxide, 2-Butoxyethanol  
 Pennsylvania RTK: Monoethanolamine, Sodium hydroxide, 2-Butoxyethanol

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

**Registered Product Information** Not applicable.

**Canadian Regulations**

**Canadian NPRI** Canadian NPRI: 2-Butoxyethanol.

**WHMIS Classification** Class D-2B: Material causing other toxic effects (TOXIC).  
 Class E: Corrosive liquid.

**WHMIS Icon**



**Registered Product Information** Not applicable.

**Chemical Inventory Status** All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. All the ingredients are on the DSL list.

**Section 16. Other Information**

**Other Special Considerations** Not available.

**Version** 1

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