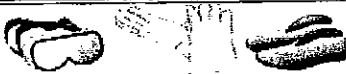


JWX5394995

MATERIAL SAFETY DATA SHEET

Diversey

BRAVO 1500+ UHS Floor Stripper

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

Version Number: 0

Preparation date: 2011-09-28

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BRAVO 1500+ UHS Floor Stripper

MSDS #: MS0300876
Product Code: 5594995
Recommended use: Industrial/Institutional. Floor stripper. This product is intended to be diluted prior to use.

Manufacturer, Importer, supplier:
US Headquarters
Diversey, Inc.
8310 16th St.
Sturtevant, Wisconsin 53177-1984
Phone: 1-888-352-2249
MSDS Internet Address: www.diversey.com
Emergency telephone number: 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

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

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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

Principal 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

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat (mg/kg)	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Benzyl alcohol	100-51-8	5 - 10%	1230	2000 mg/kg	8.8 mg/L (4 h)
Diethylene glycol butyl ether	112-34-5	1 - 5%	4500	2700 mg/kg	Not available
Monoethanolamine	141-43-5	10 - 20%	1720	1 mL/kg 1025 mg/kg	Not available

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

BRAVO 1500+ UHS Floor Stripper

Distributed By KEL-SAN, INC
5109 NATIONAL DR., KNOXVILLE, TN 37914

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Stability: The product is stable
Polymerization: Hazardous polymerization does not occur
Hazardous decomposition products: None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Corrosive. Oral LD50 estimated to be between 4000 - 5000 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:
This product, as sold, if discarded or disposed, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Dispose in compliance with all Federal, state, provincial, and local laws and regulations

RCRA Hazard Class: Not Regulated

14. TRANSPORT INFORMATION

DOT/TDG/IMDG: Please refer to the Diversey HazMat Library, <http://naextranet.diversey.com/dot/>, for up to date shipping information.

DOT Bill of Lading Description: UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (MONOETHANOLAMINE, BENZYL ALCOHOL), 8, II

IMDG Bill of Lading Description: Same as DOT above.

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	-
Diethylene glycol butyl ether	112-34-5	-	-	-	-
Sodium xylene sulfonate	1300-72-7	-	-	-	-
Monoethanolamine	141-43-5	X	X	X	X
Water	7732-18-5	-	-	-	-

CERCLA/ SARA

SARA 311/312 Hazard Categories
Immediate:

X

BRAVO 1500+ UHS Floor Stripper

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Suitable extinguishing media: The product is not flammable. Extinguish fire using agent suitable for surrounding fire.
 Specific hazards: Not applicable
 Unusual hazards: None known
 Specific methods: No special methods required

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: No information available
 and clean-up methods:

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. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
 Storage:
 Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. 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
Monoethanolamine	141-43-5	6 ppm (STEL) 3 ppm (TWA)	3 ppm (TWA) 6 mg/m ³ (TWA)	6 ppm (STEL) 16 mg/m ³ (STEL) 3 ppm (TWA) 8 mg/m ³ (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
 Appearance: Aqueous solution
 Specific gravity: 1.016
 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: 0.00 % by wt.
 pH: 12.1
 Explosion limits: - upper: Not determined - lower: Not determined

Bulk density: No information available
 Evaporation Rate: No information available
 Color: Clear Straw
 Odor: Solvent Solvent
 Melting point/range: Not determined
 Autoignition temperature: No information available
 Density: 8.51 lbs/gal 1.02 Kg/L
 Flash point: > 200 °F > 93.4 °C
 Viscosity: No information available
 VOC: 11.25 %
 Dilution pH: 11.45 @ 1:4

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

10. STABILITY AND REACTIVITY

Delayed: -
Fire: -
Reactivity: -
Sudden Release of Pressure: -

Canada
WHMIS hazard class: E Corrosive material



16. OTHER INFORMATION

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

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Material Safety Data Sheet

MXM11060005

LAB, INC. 10 Industrial Park Rd. Sweetwater, TN 37874 1-337-3180(8AM-5PM WEEKDAYS)	DATE PREPARED: 01/03/96 PREPARED BY: ... Regulatory Dept. REVISION DATE: ... 09-04-01 EMERGENCY PHONE # INFOTRAC 1-800-535-5053 24 HRS DAILY	PRODUCT NUMBER: 110698 PRODUCT NAME: Non-Ammoniated Floor Stripper CUSTOMER NUMBER: 99912 DISTRIBUTED BY: Midlab, Inc. DISTRIBUTOR ADDRESS: 280 Industrial Park Road Sweetwater, TN 37874
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SECTION I - IDENTIFICATION

PRODUCT NAME: NONYMS: Non-Ammoniated Floor Stripper Concentrate CHEMICAL FAMILY: Alkalies	PROPER SHIPPING NAME: Corrosive Liquid, NOS(Containing Monoethanolamine), 8, UN 1760, PG II	HMIS HEALTH: 1 HMIS FLAMMABILITY: .. 0 HMIS REACTIVITY: 1 HMIS PERSONAL PROTECTION: B
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SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	PEL
monoethanolamine	<10	141-43-5	3 ppm
butoxyethanol	<10	111-76-2	25 ppm
potassium Hydroxide	<10	1310-58-3	2 mg/cu. m
ethylenediamine	<10	64-02-8	Not Listed
water	75-85	7732-18-5	Not Listed

SECTION III - PHYSICAL DATA

APPEARANCE: Straw colored liquid with a characteristic solvent odor. VAPORATION RATE: >1 SOLUBILITY IN WATER: .. Complete @ 25 degrees C.	SPECIFIC GRAVITY: 1.02 BOILING POINT: 214 Degrees F. VAPOR DENSITY(AIR=1): >1 % VOL: 94
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SECTION IV - FIRE AND EXPLOSION DATA

FLASHPOINT: ... Not Applicable LOWER EXPLOSION LIMIT: .. NA SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective gear including self-contained breathing apparatus. Avoid direct contact of water with product. Eliminate all sources of ignition. Prevent vapors migrating through ventilation systems. UNUSUAL FIRE/EXPLOSION HAZARDS: .. Vapors are more dense than air and may travel long distances before flashing back to source. Water may cause product decomposition. See Hazardous Decomposition Products in Section V.	METHOD: ... Not Applicable EXTINGUISHING MEDIA: ... Water, Carbon Dioxide, Dry Chemical or Foam
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SECTION V - REACTIVITY DATA

STABILITY: Stable COMPATIBILITY: .. Acids, oxidizing agents and any uncontrolled contact with water. DECOMPOSITION: .. Oxides of carbon and/or of nitrogen, ammonia, amines.	HAZARDOUS POLYMERIZATION: ... Will not occur
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SECTION VI - HEALTH DATA

THRESHOLD LIMIT VALUE: .. Not established for mixture. KNOWN CARCINOGEN: No ingredients listed by NTP, IARC or OSHA Subpart Z. INHALATION: Inhaling concentrated vapors is corrosive to all body tissues contacted. Chronic inhalation of vapors may cause liver, kidney and/or blood disorders. Inhaling concentrated dusts, fumes and/or mists is corrosive to all body tissues contacted. Inhaling concentrated vapors may cause nausea, fatigue, Central Nervous System Depression, dizziness and/or other anesthetic effects. INGESTION: Chronic ingestion may cause liver, kidney and/or blood disorders. Ingestion is corrosive to any body tissues contacted. SKIN(DERMAL): ... Product is corrosive to skin. Chronic exposure by skin absorption may cause liver, kidney and/or blood disorders. MEDICAL CONDITIONS AGGRAVATED: ... Pre-existing liver, kidney and/or blood disorders. Pre-existing respiratory disorders.	OSHA PEL: Not established for mixture. EYES: Any contact with product is corrosive to eyes.
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SECTION VII - FIRST AID

INHALATION: Remove victim to fresh air. Administer artificial respiration if breathing or heart have stopped. Get immediate medical attention. If available, oxygen may be administered to facilitate breathing.	EYES: Immediately flush eyes with running water for at least 15 minutes. Remove and discard contaminated contact lenses. Get immediate medical attention. If possible, continue to flush eyes with running water until medical aid is received.
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Material Safety Data Sheet

MXM11060005

ALLOWING(INGESTION):.. Immediately drink large amounts of milk, vegetable oil, citrus juice or, if these are not available, water to dilute. **DO NOT INDUCE VOMITING.** Get immediate medical attention. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN:.. If ingested, risk of mucousal damage and pulmonary edema associated with emesis should be weighed against risk of moderating dangerous levels of gas and heat associated with neutralization and against toxicity of exposure.

SKIN(DERMAL):.. Immediately flush affected area with running water for at least 15 minutes. Remove contaminated clothing and wash before reuse. Apply a good moisturizing lotion and seek prompt medical attention if irritation develops or persists.

SECTION VIII EMPLOYEE PROTECTION

RESPIRATORY PROTECTION: NIOSH approved respirator for organic vapors as necessary to prevent irritation or overexposure. NIOSH approved respirator for dust, fumes and mists as necessary to prevent irritation or overexposure. NIOSH approved respirator for ammonia and amines as necessary to prevent irritation or overexposure.

PROTECTIVE CLOTHING: Rubber, neoprene, nitrile, PVC or other chemically resistant skin protection as required to prevent contact. Chemical splash glasses, splash goggles or full face shield as necessary to prevent contact.

ADDITIONAL MEASURES: Eyewash and shower facilities suggested.

VENTILATION:.. Local exhaust may be required to prevent exceeding TWA/TLV.

SECTION IX - SPILL AND DISPOSAL DATA

SPILL: Wear full protective gear. Dike & contain spill. Pump as much material as possible to salvage vessels. Dilute remaining residue and neutralize with DILUTE acetic acid (vinegar).

WASTE DISPOSAL:.... Dispose of all wastes according to all federal, state and local legislation.

SECTION XI - OTHER REGULATORY INFORMATION

CRA STATUS: Triggered only by product characteristics after use.

TSCA STATUS:.. All ingredients of this product are listed on the TSCA inventory.

CA (SECTION 302) Extremely Hazardous Substance:.. No

SARA SECTION 312:.... Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Reactive Hazard.

SARA SECTION 313 Toxic Release Inventory Reporting:.. Contains 7.0% Glycol Ethers which, as a class, are regulated under SARA Section 313 Toxic Release Inventory reporting requirements. The reportable quantity for Potassium Hydroxide is 1000 lbs. per CERCLA.

SECTION XII - PRECAUTIONARY LABEL STATEMENTS

WARNING:..... **WARNING: KEEP OUT OF REACH OF CHILDREN.** For Industrial and Institutional Use Only.

SECTION XIII - ADDITIONAL INFORMATION

ADDITIONAL:.. Use Product only as recommended on the label and literature.
DISCLAIMER:.. NOTICE: The information contained in this MSDS is believed to be correct as of the date prepared. No representations or warranties, either express or implied, of the merchantability, fitness for a particular purpose, or of any other nature are made with respect to information concerning the product referred to in this MSDS.

PRODUCT NUMBER:..1106

BAR CODE:.....