



## Bravo™ Heavy-Duty Low Odor Stripper

Revision: 2024-07-31

Version: 02.0

### 1. IDENTIFICATION

**Product name:** Bravo™  
Heavy-Duty Low Odor Stripper

**SDS #:** MS0801952

**Recommended use:**

- Industrial/Institutional
- Floor stripper
- This product is intended to be diluted prior to use

**Uses advised against:** Uses other than those identified are not recommended

**Manufacturer, importer, supplier:**

US Headquarters Diversey, Inc. 1300 Altura Rd., Suite 125 Fort Mill, SC 29708 Phone: 1-888-352-2249 SDS Internet Address: <a href="https://sds.diversey.com">https://sds.diversey.com</a>	Canadian Headquarters Diversey Canada, Inc. 6150 Kennedy Road Unit 3 Mississauga, Ontario L5T 2J4 Phone: 1-800-668-7171
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**Emergency telephone number:** 1-800-851-7145; 1-651-917-6133 (Int'l)

### 2. HAZARDS IDENTIFICATION

#### Classification for the undiluted product

Skin corrosion, Category 1A  
 Serious eye damage, Category 1  
 Reproductive toxicity, Category 2  
 Corrosive to metals, Category 1



**Signal word:** Danger.

#### Hazard Statements

**CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. MAY BE CORROSIVE TO METALS.**

#### Precautionary Statements

Causes burns/ serious damage to mouth, throat and stomach. Obtain special instructions before use. Keep container tightly closed. Keep only in original container. Do not breathe vapors. Avoid contact with eyes, skin and clothing. Wash affected areas thoroughly after handling. Wear protective gloves, protective clothing and eye or face protection. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting unless directed to do so by medical personnel. Drink a cupful of milk or water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. IF exposed or concerned: Get medical advice or attention. Immediately call a Poison Center (1-800-851-7145) or physician. Absorb spillage to prevent material damage. Store locked up. Store in corrosive-resistant container with a resistant inner liner. Dispose of in accordance with all federal, state and local applicable regulations. SUPPLEMENTAL INFORMATION: DO NOT MIX WITH AMMONIA, BLEACH OR OTHER CHLORINATED COMPOUNDS. Mix only with water. Can react to release hazardous gases. May vigorously react with acids resulting in spattering and excessive heat.

**Health hazards not otherwise classified (HHNOC)** - Not applicable

**Physical hazards not otherwise classified (PHNOC)** - Not applicable

**Classification for the diluted product 1:4**

Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2A  
Metal Corrosion: Category 1



**Signal word:**

Warning.

**Hazard and Precautionary Statements****CAUSES SKIN AND SERIOUS EYE IRRITATION. MAY BE CORROSIVE TO METALS.**

Keep only in original container. Avoid contact with eyes, skin and clothing. Wash affected areas thoroughly after handling. May cause irritation to mouth, throat and stomach. Wear chemical-splash goggles and chemical-resistant gloves. IF SWALLOWED: Rinse mouth. Drink a cupful of milk or water. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice or attention. Absorb spillage to prevent material damage. Store in corrosive-resistant container with a resistant inner liner. Dispose of in accordance with all federal, state and local applicable regulations.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Classified Ingredients**

Ingredient(s)	CAS #	Weight %
Sodium hydroxide	1310-73-2	5 - 10%
Monoethanolamine	141-43-5	1 - 5%
Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts	119345-04-9	> 0.1 - 1%
Ethyl alcohol	64-17-5	> 0.1 - 1%

**4. FIRST AID MEASURES****Undiluted Product:**

**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes.

**Skin:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. Wash with plenty of water for at least 15 minutes.

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Ingestion:** IF SWALLOWED: Rinse mouth. DO NOT induce vomiting unless directed to do so by medical personnel. Drink a cupful of milk or water.

**Most Important Symptoms/Effects:** No information available.

**Immediate medical attention and special treatment needed** Not applicable.

**Diluted Product:**

**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice/attention

**Skin:** IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention

**Inhalation:** No specific first aid measures are required

**Ingestion:** IF SWALLOWED: Call a Poison Center (1-800-851-7145) or doctor/physician if you feel unwell.

**5. FIRE-FIGHTING MEASURES**

**Specific methods:**

No special methods required

**Suitable extinguishing media:**

The product is not flammable. Extinguish fire using agent suitable for surrounding fire.

**Specific hazards:**

Corrosive material (See sections 8 and 10).

**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:**  
**Environmental precautions**  
**and clean-up methods:**

Put on appropriate personal protective equipment (see Section 8.).  
Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

## 7. HANDLING AND STORAGE

**Handling:** Can react to release hazardous gases. May vigorously react with acids resulting in spattering and excessive heat. Do not mix with other products or chemicals except as directed on the label. Mix only with water. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not taste or swallow. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. Avoid breathing vapors or mists. Use only with adequate ventilation. Remove and wash contaminated clothing and footwear before re-use. Absorb spillage to prevent material damage. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

**Storage:** Store in corrosive-resistant container with a resistant inner liner.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines:**

<b>Ingredient(s)</b>	<b>ACGIH</b>	<b>OSHA</b>
Sodium hydroxide	2 mg/m <sup>3</sup> (Ceiling)	2 mg/m <sup>3</sup> (TWA)
Monoethanolamine	6 ppm (STEL) 3 ppm (TWA)	3 ppm (TWA) 6 mg/m <sup>3</sup> (TWA)
Ethyl alcohol	1000 ppm (STEL)	1000 ppm (TWA) 1900 mg/m <sup>3</sup> (TWA)

**Undiluted Product:**

**Engineering measures to reduce exposure:**

Good general ventilation should be sufficient to control airborne levels.

**Personal Protective Equipment**

It is the responsibility of the employer to determine the potential risk of exposure to hazardous chemicals for employees in the workplace in order to determine the necessity, selection, and use of personal protective equipment.

**Eye protection:**

Chemical-splash goggles.

**Hand protection:**

Chemical-resistant gloves.

**Skin and body protection:**

Protective footwear. Wear suitable protective clothing.

**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.

**Diluted Product:**

**Engineering measures to reduce exposure:**

Good general ventilation should be sufficient to control airborne levels.

**Personal Protective Equipment**

**Eye protection:**

Chemical-splash goggles.

**Hand protection:**

Chemical-resistant gloves.

**Skin and body protection:**

No personal protective equipment required under normal use conditions.

**Respiratory protection:**

No personal protective equipment required under normal use conditions.

**Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Liquid

**Evaporation Rate:** No information available

**Odor threshold:** No information available.

**Melting point/freezing point (°C):** Not determined

**Autoignition temperature:** No information available

**Solubility in other solvents:** No information available

**Density:** 1.089 Kg/L

**Color:** Clear , Colorless

**Odor:** No Odor/Odorless

**Boiling point/range:** Not determined

**Decomposition temperature:** Not determined

**Solubility:** Completely Soluble

**Relative Density (relative to water):** 1.09

**Vapor density:** No information available

**Bulk density:** No information available  
**Flash point (°F):** > 200.12 °F > 93.4 °C  
**Kinematic viscosity** No information available  
**VOC:** 4.2 % \*  
**Flammability (Solid or Gas):** Not applicable  
**Sustained combustion:** Not applicable  
**Explosion limits: - upper:** Not determined **- lower:** Not determined

**Vapor pressure:** No information available.  
**Partition coefficient (n-octanol/water):** No information available  
**Elemental Phosphorus:** 0.00 % by wt.  
**pH:** >= 11.5  
**Corrosion to metals:** Metal corrosive

**Dilution pH:** > 11  
**Dilution Flash Point (°F):** > 200.12 °F > 93.4 °C  
**VOC % by wt. at use dilution:** 0.8 %

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

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Not Applicable
<b>Stability:</b>	The product is stable
<b>Possibility of hazardous reactions:</b>	May vigorously react with acids resulting in spattering and excessive heat.
<b>Hazardous decomposition products:</b>	None reasonably foreseeable.
<b>Materials to avoid:</b>	Acids. Strong acids. Do not mix with any other product or chemical unless specified in the use directions.
<b>Conditions to avoid:</b>	None known.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Skin contact, Inhalation, Ingestion, Eye contact

### Delayed, immediate, or chronic effects and symptoms from short and long-term exposure

**Skin contact:** Corrosive. Causes severe burns. Symptoms may include burns, blisters, redness and pain (which may be delayed).

**Eye contact:** Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.

**Ingestion:** Causes burns/ serious damage to mouth, throat and stomach. Symptoms may include stomach pain and nausea.

**Inhalation:** May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.

**Sensitization:** No known effects.

**Target Organs (SE):** None known

**Target Organs (RE):**

**Carcinogen Listings:** Ethyl alcohol is only classified as an IARC 1 carcinogen and California Prop 65 chemical when it is meant for ingestion in alcoholic beverages. We do not produce alcoholic beverages; therefore it is not considered a carcinogen in our products.

### Numerical measures of toxicity

<b>ATE - Oral (mg/kg):</b>	>2000
<b>ATE - Dermal (mg/kg):</b>	>2000
<b>ATE - Inhalatory, gases (mg/l):</b>	>20000
<b>ATE - Inhalatory, mists (mg/l):</b>	>5
<b>ATE - Inhalatory, vapors (mg/l):</b>	>20

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No information available.

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Mobility:** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products (undiluted product):** This product, as sold, if discarded or disposed, is a hazardous waste according to Federal regulations (40 CFR 261). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the waste solution meets RCRA criteria for hazardous waste. Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

**Waste from residues / unused products (diluted product):** This product, when diluted as stated on this SDS, is a hazardous waste according to Federal regulations (40 CFR 261). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the waste solution meets RCRA criteria for hazardous waste. Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

**RCRA Hazard Class (undiluted product):** D002 Corrosive Waste

**RCRA Hazard Class (diluted product):** D002 Corrosive Waste

**Contaminated Packaging:** Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

**DOT/TDG/IMDG:** The information provided below is the full transportation classification for this product. This description does not account for the package size(s) of this product, that may fall under a quantity exception, according to the applicable transportation regulations. When shipping dangerous goods, please consult with your internal, certified hazardous materials specialist to determine if any exceptions can be applied to your shipment.

**DOT (Ground) Bill of Lading Description:** UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (sodium hydroxide, ethanolamine), 8, II

**IMDG (Ocean) Bill of Lading Description:** UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (sodium hydroxide, ethanolamine), 8, II

### 15. REGULATORY INFORMATION

#### International Inventories at CAS# Level

TSCA

All components are listed or otherwise exempt

DSL

All components are listed or otherwise exempt

#### US RIGHT TO KNOW (RTK)

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Water	7732-18-5	-	-	-	-
Sodium hydroxide	1310-73-2	X	X	X	X
Monoethanolamine	141-43-5	X	X	X	-
Sodium xylene sulfonate	1300-72-7	-	-	-	-
Sodium lauryl ether sulfate	68585-34-2	-	-	-	-
Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts	119345-04-9	-	-	-	-
Ethyl alcohol	64-17-5	X	X	X	-

#### CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Sodium hydroxide	1310-73-2	5 - 10%	1000		

#### Canadian Regulations

### 16. OTHER INFORMATION

#### NFPA (National Fire Protection Association)

Rating Scale: (Low Hazard) 0 - 4 (Extreme Hazard)

Health 3

Bravo™  
Heavy-Duty Low Odor Stripper

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Flammability 0  
Instability 0  
Special Hazards -

**Diluted Product:**  
Health 2  
Flammability 0  
Instability 0  
Special Hazards -

Revision: 2024-07-31  
Version: 02.0

Reason for revision: Not applicable  
Prepared by: North American Regulatory Affairs  
Additional advice: • Does not contain an added fragrance

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