

Material Safety Data Sheet

BRIGHT POWER



1. Product and company identification

Trade name of product : BRIGHT POWER

Product use : Floor Stripper

Product dilution information : Up to 1:8 in water

Supplier's information : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326

Code : 912544-02

Date of issue : 24-November-2010

EMERGENCY HEALTH INFORMATION: 1-800-328-0026

Outside United States and Canada CALL 1-651-222-5352 (in USA)

2. Hazards identification

Product AS SOLD

Physical state : Liquid.

Emergency overview : DANGER !

CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.

CAUSES RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapours, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Product AS SOLD

Eyes : Corrosive to eyes.

Skin : Corrosive to the skin.

Inhalation : Severely irritating to the respiratory system.

Ingestion : Causes burns to mouth, throat and stomach. May be harmful if swallowed.

See toxicological information (section 11)

Product AT USE DILUTION

Liquid.

CAUTION !

MAY CAUSE EYE AND SKIN IRRITATION.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Product AT USE DILUTION

Moderately irritating to eyes.

Moderately irritating to the skin.

Slightly irritating to the respiratory system.

No known significant effects or critical hazards.

3. Composition/information on ingredients

Product AS SOLD

Name

BENZYL ALCOHOL

ETHANOLAMINE

2-hexyloxyethanol

POTASSIUM OLEATE

PROPYLENE GLYCOL

POTASSIUM HYDROXIDE

CAS number

100-51-6

141-43-5

112-25-4

143-18-0

57-55-6

1310-58-3

% by weight

15 - 40

10 - 30

7 - 13

7 - 13

3 - 7

3 - 7

3. Composition/information on ingredients

Product AT USE DILUTION

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
BENZYL ALCOHOL	100-51-6	1 - 5
ETHANOLAMINE	141-43-5	1 - 5
2-hexyloxyethanol	112-25-4	0.5 - 1.5
POTASSIUM OLEATE	143-18-0	0.5 - 1.5

4. First-aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.	In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	: If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention.	No special measures required. Treat symptomatically.
Ingestion	: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.	Get medical attention if symptoms occur.

5. Fire-fighting measures

Product AS SOLD

Auto-ignition temperature	: Not available.
Flammable limits	: Not available.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special remarks on fire hazards	: Not available.
Special remarks on explosion hazards	: Not available.
Fire-fighting media and instructions	: Use an extinguishing agent suitable for the surrounding fire. Dyke area of fire to prevent runoff. In a fire or if heated, a pressure increase will occur and the container may burst.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Product AS SOLD		Product AT USE DILUTION
Personal precautions	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilt material.	Use personal protective equipment as required.
Environmental precautions	: Avoid contact of spilt material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilt material and runoff with soil and surface waterways.
Methods for cleaning up	: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralise liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labelled container. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

7. Handling and storage

Product AS SOLD		Product AT USE DILUTION
Handling	: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe vapour or spray. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage	: Keep out of reach of children. Store in a closed container. Keep container tightly closed. Store between the following temperatures: 0 and 50°C	Keep out of reach of children. Store in a closed container.

8. Exposure controls/personal protection

Product AS SOLD		Product AT USE DILUTION
Engineering measures	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection		
Eyes	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	Safety eyewear should be used when there is a likelihood of exposure.
Hands	: Use chemical-resistant, impervious gloves.	For prolonged or repeated handling, use the following type of gloves: Impervious gloves.
Skin	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.	No protective equipment is needed under normal use conditions.
Respiratory	: Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.	No special protection is required.

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			Notations
Ingredient	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	

8. Exposure controls/personal protection

benzyl alcohol	US AIHA 1/2009	10	-	-	-	-	-	-	-	-	-	-
2-aminoethanol	US ACGIH 2/2010	3	7.5	-	6	15	-	-	-	-	-	-
	AB 4/2009	3	7.5	-	6	15	-	-	-	-	-	[3]
	BC 10/2009	3	-	-	6	-	-	-	-	-	-	-
	ON 7/2010	3	7.5	-	6	15	-	-	-	-	-	-
	QC 6/2008	3	7.5	-	6	15	-	-	-	-	-	-
potassium hydroxide	US ACGIH 2/2010	-	-	-	-	-	-	-	2	-	-	-
	AB 4/2009	-	-	-	-	-	-	-	2	-	-	[3]
	BC 10/2009	-	-	-	-	-	-	-	2	-	-	-
	ON 7/2010	-	-	-	-	-	-	-	2	-	-	-
	QC 6/2008	-	-	-	-	2	-	-	-	-	-	-
propylene glycol	ON 7/2010	-	10	-	-	-	-	-	-	-	-	[a]
		50	155	-	-	-	-	-	-	-	-	[b]

[3]Skin sensitisation

Form: [a]Aerosol only. [b]Vapour and aerosol.

9. Physical and chemical properties

Product AS SOLD

Physical state : Liquid.
Flash point : > 100°C
Colour : Amber. [Light]
Odour : Amine-like.
pH : 14 [Conc. (% w/w): 100%]
Boiling/condensation point : >100°C (>212°F)
Melting/freezing point : Not available.
Relative density : 1.046
Vapour pressure : Not available.
Vapour density : Not available.
Odour threshold : Not available.
Evaporation rate : Not available.
Viscosity : Not available.
Dispersibility properties : Easily dispersible in the following materials: cold water and hot water.
Solubility : Easily soluble in the following materials: cold water and hot water.
LogK_{ow} : Not available.

Product AT USE DILUTION

Liquid.
> 100°C
Hazy liquid. [Light]
Amine-like.
12.3 to 13

10. Stability and reactivity

Product AS SOLD

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions of instability : Not available.
Reactivity : Highly reactive or incompatible with the following materials: acids.
Reactive or incompatible with the following materials: metals.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerisation : Under normal conditions of storage and use, hazardous polymerisation will not occur.

11. Toxicological information

Potential acute health effects

Product AS SOLD	
Eyes	: Corrosive to eyes.
Skin	: Corrosive to the skin.
Inhalation	: Severely irritating to the respiratory system.
Ingestion	: Causes burns to mouth, throat and stomach. May be harmful if swallowed.

Product AT USE DILUTION

Moderately irritating to eyes.
Moderately irritating to the skin.
Slightly irritating to the respiratory system.
No known significant effects or critical hazards.

Product AS SOLD

Potential chronic health effects

Carcinogenic effects	: No known significant effects or critical hazards.
Mutagenic effects	: No known significant effects or critical hazards.
Teratogenic effects	: No known significant effects or critical hazards.
Reproductive effects	: No known significant effects or critical hazards.
Sensitization to Product	: No known significant effects or critical hazards.
Synergistic products (toxicologically)	: Not available.

Toxicity data

Product/ingredient name	Test	Route	Result	Species
benzyl alcohol	LD50	Dermal	2000 mg/kg	Rabbit
	LD50	Oral	1.5 mL/kg	Rat
	LD50	Oral	2500 mg/kg	Guinea pig
	LD50	Oral	1660 mg/kg	Rat
	LD50	Oral	1360 mg/kg	Mouse
	LD50	Oral	1230 mg/kg	Rat
	LD50	Oral	1040 mg/kg	Rabbit
	LD50	Oral	100 mg/kg	Bird - wild bird species
2-aminoethanol	LD50	Dermal	1 mL/kg	Rabbit
	LD50	Dermal	1020 mg/kg	Rabbit
	LD50	Oral	1 g/kg	Rabbit
	LD50	Oral	1720 mg/kg	Rat
	LD50	Oral	700 mg/kg	Mouse
	LD50	Oral	620 mg/kg	Guinea pig
	LD50	Oral	273 mg/kg	Rat
potassium hydroxide	LD50	Oral	273 mg/kg	Rat
oleic acid, potassium salt	LD50	Dermal	>2 g/kg	Rat
	LD50	Oral	>5 g/kg	Rat
	LD50	Oral	>5 g/kg	Mouse
propylene glycol	LD50	Dermal	20800 mg/kg	Rabbit
	LD50	Oral	20 g/kg	Rat
	LD50	Oral	20300 mg/kg	Mouse
	LD50	Oral	18500 mg/kg	Rabbit
2-hexyloxyethanol	LD50	Dermal	810 mg/kg	Rabbit
	LD50	Dermal	720 mg/kg	Rabbit
	LD50	Oral	830 mg/kg	Rat

Other adverse effects

Target organs	: Contains material which causes damage to the following organs: kidneys, liver. Contains material which may cause damage to the following organs: lungs, upper respiratory tract, central nervous system (CNS).
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12. Ecological information

Ecotoxicity : Not reported

13. Disposal considerations

Product AS SOLD

Waste disposal : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Product AS SOLD

TDG Classification UN1719

Proper shipping name CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide, 2-aminoethanol)

Class 8

Packing group II

For transport in bulk or using IMDG regulations, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

15. Regulatory information

Product AS SOLD

WHMIS : Class E: Corrosive material

Product AT USE DILUTION

Class D-2B: Material causing other toxic effects (Toxic).

Canada inventory : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.) :

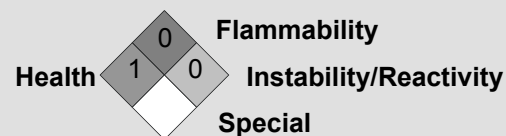
Health	*	3
Flammability		0
Physical hazards		0

National Fire Protection Association (U.S.A.) :

Product AT USE DILUTION

Health	*	1
Flammability		0
Physical hazards		0

16. Other information



Date of issue : 24-November-2010

Responsible name : Regulatory Affairs
1-800-352-5326

▣ Indicates information that has changed from previously issued version.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.