

# Material Safety Data Sheet

## MAGIC-BOSS Pool & Outdoor Furniture Cleaner



### 1. Product and company identification

Product name : MAGIC-BOSS Pool & Outdoor Furniture Cleaner  
Material uses : Cleaner  
Supplier/Manufacturer : Boss Technology Inc.  
5700 Barre  
St-Hyacinthe, Qc J2R 1E4  
Tel : 450-771-6728/800-771-6728  
Fax: 450-771-4428/855-771-4428  
info@bosstechnology.com  
MSDS authored by : KMK Regulatory Services Inc.  
In case of emergency : CANUTEC (613) 996-6666  
Product type : Liquid

### 2. Hazards identification

#### Emergency overview

Color : Green  
Physical state : Liquid  
Signal word : WARNING!  
Hazard statements : HARMFUL IF SWALLOWED. CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CAN CAUSE TARGET ORGAN DAMAGE.  
Precautions : Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.  
Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

#### Potential acute health effects

Inhalation : May be harmful by inhalation.  
Ingestion : Toxic if swallowed.  
Skin : Slightly irritating to the skin.  
Eyes : May cause eye irritation.

#### Potential chronic health effects

Chronic effects : Can cause target organ damage.  
Carcinogenicity : No known significant effects or critical hazards.  
Mutagenicity : No known significant effects or critical hazards.  
Teratogenicity : No known significant effects or critical hazards.  
Developmental effects : No known significant effects or critical hazards.  
Fertility effects : No known significant effects or critical hazards.  
Target organs : Contains material which causes damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

#### Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:  
Respiratory tract irritation  
Coughing  
Ingestion : No specific data.  
Skin : No specific data.

**2. Identification des dangers**

- Eyes : Adverse symptoms may include the following:  
Pain or irritation  
Watering  
redness
- Medical conditions : Repeated or prolonged exposure is not known to aggravate any medical condition.
- Aggravated by over-Exposure
- See toxicological information (section 11)

**3. Composition/information on ingredients**

Name	CAS number	%
2-Butoxyethanol	111-76-2	1-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**4. First aid measures**

- Eye contact : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention.
- Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.
- Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.
- Notes to physician : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**5. Fire-fighting measures**

- Flammability of the product : No specific fire or explosion hazard.
- Extinguishing media
- Suitable : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable : None known.
- Special exposure hazards : None known.
- Hazardous decomposition products : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- 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**

- Personal precautions : Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up
  - Small spill : Stop leak if without risk. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
  - Large spill : Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

**7. Handling and storage**

- Handling : Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.
- Storage : Keep container tightly closed in a cool, well-ventilated place.

**8. Exposure controls/personal protection**

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			Notation
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	
2-Butoxyethanol	US ACGIH 1/2008	20	-	-	-	-	-	-	-	-	
	AB 06/2008	20	97	-	-	-	-	-	-	-	[1]
	BC 06/2008	20	-	-	-	-	-	-	-	-	
	ON 6/2008	20	-	-	-	-	-	-	-	-	[1]
	QC 6/2008	20	97	-	-	-	-	-	-	-	

[1] Absorbed through skin.

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures : Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended of statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits.

Hygiene measures	: Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Personal protection	
Respiratory	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits.
Hands	: >8 hours (breakthrough time): Natural rubber (latex).
Eyes	: Safety eyewear should be used when there is a likelihood of exposure. Recommended: Splash goggles.
Skin	: Recommended: Lab coat
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**9. Physical and chemical properties**

Physical state	: Liquid
Color	: Green
pH	: 9.7
Relativity density	: 1.019
Solubility	: Easily soluble in the following materials: cold water, hot water, methanol and acetone.

**10. Stability and reactivity**

Chemical stability	: The product is stable.
Conditions to avoid	: No specific data.
Materials to avoid	: Reactive or incompatible with the following materials: oxidizing materials and alkalis. Slightly reactive or incompatible with the following materials: acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous Reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

**11. Toxicological information**

Acute toxicity						
Product/ingredient name	Species	Species	Dose	Exposure		
2-Butoxyethanol	LD50 Dermal	Rabbit	220 mg/kg	-		
	LD50 Oral	Rat	917 mg/kg	-		
	LD50 Oral	Rat	250 mg/kg	-		
	LC50 Inhalation vapor	Rat	2900 mg/m <sup>3</sup>	-		
Chronic toxicity						
Carcinogenicity / Classification						
Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
2-Butoxyethanol	A3	3	-	-	-	-

**12. Ecological information**

Environmental effects : No established

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
2-Butoxyethanol	-	Acute LC50 1490000 ug/L	Fish	96 hours
	-	Acute LC50 1250000 ug/L	Fish	96 hours
	-	Acute LC50 800000 to 1000000 ug/L	Crustaceans	48 hours

Other adverse effects : No know significant effects or critical hazards.

**13. Disposal considerations**

Waste disposal : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.  
 Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

**14. Transport information**

Regulatory Information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	Not regulated	-	-	-		-
IMDG Class	Not regulated	-	-	-		-
IATA-DGR Class	Not regulated	-	-	-		-

PG\*: Packing group  
 Exemption to the above classification may apply.

**15. Regulatory information**

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

Canadian lists : CEPA Toxic substances: None of the components are listed.  
 Canadian ARET: None of the components are listed.  
 Canadian NPRI: The following components are listed: 2-Butoxyethanol  
 Alberta Designated Substances: None of the components are listed.  
 Ontario Designated Substances: None of the components are listed.  
 Quebec Designated Substances: None of the components are listed.

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.

International regulations

International lists : Australia inventory (AICS): All components are listed or exempted.  
 China inventory (IECSC): All components are listed or exempted.  
 Japan inventory: Not determined.  
 Korea inventory: All components are listed or exempted.  
 New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.  
 Philippines Inventory (PICCS): All components are listed or exempted.

**Convention List Schedule I**

**Chemicals**

**Chemical Weapons** : Not listed

**Convention List Schedule II**

**Chemicals**

**Chemical Weapons** : Not listed

**Convention List Schedule III**

**Chemicals**

**16. Other information**

WHMIS (Canada)

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References

: -29CFR Part1910.1200 OSHA MSDS Requirements. -49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG, - Canada Gazette Part II, Vol. 122, No.2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" – Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005 – Manufacturer’s Material Safety Data Sheet.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.