

Material Safety Data Sheet

MAGIC-BOSS Protectant / Restorer



1. Product and company identification

Product name : MAGIC-BOSS Protectant / Restorer
Material uses : Not available
Supplier/Manufacturer : Boss Technology Inc.
5700 Barre
St-Hyacinthe, Qc J2R 1E4
Tel : 450-771-6728/800-771-6728
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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

Physical state : Liquid
Signal word : WARNING!
Hazard statements : CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION. CONTAIN MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. BIRTH DEFECT HAZARD – CONTAINS MATERIAL WHICH CAN CAUSE BIRTH DEFECTS.

Precautions : Avoid exposure – obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid exposure during pregnancy. 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 : Slightly irritating to the respiratory system.

Ingestion : May be harmful if swallowed.

Skin : Irritating to skin.

Eyes : Irritating to eyes.

Potential chronic health effects

Chronic effects : Contains material that can cause target organ damage.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : Contains material which can cause birth defects.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Target organs : Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes, central nervous system (CNS).

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing

Ingestion : No specific data.

Skin : Adverse symptoms may include the following:
irritation
redness

2. Identification des dangers

- Eyes : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Medical conditions : Repeated skin exposure can produce local skin destruction or dermatitis.
- Aggravated by over-Exposure : Repeated or prolonged exposure to the substance can produce lung damage. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation.

See toxicological information (section 11)

3. Composition/information on ingredients

Name	CAS number	%
Ethylene glycol	107-21-1	10-30
Siloxanes and silicones, di-me, polymers with 3-[(2-aminoethyl)amino]propyl silsesquioxanes, hydroxyl-terminated	68554-54-1	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 if symptoms occur.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
- Inhalation : Move exposed person to fresh air. Get medical attention if symptoms occur.
- 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 specific treatment. Treat symptomatically.

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.
- 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 equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions : Provide adequate ventilation. 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

- Spill : 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. sands, 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 : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Empty containers retain product residue and can be hazardous.
- Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			Notation	
Ingredient	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other		
Ethylene glycol	US ACGIH 1/2009	-	-	-	-	-	-	-	100	-	[a]	
	AB 4/2009	-	-	-	-	-	-	-	100	-	[3] [a]	
	BC 10/2009	-	-	-	-	-	-	-	100	-	[a]	
			-	10	-	-	20	-	-	-	-	[b]
			-	-	-	-	-	-	50	-	-	[c]
	ON 8/2008 QC 6/2008	-	-	-	-	50	127	-	-	-	-	[d]

[[3] Skin sensitization Form : [a] Aerosol [b] Particulate [c] vapour [d] Vapour and mist

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 : No special ventilation requirements. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory 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.
- 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. Not required under normal conditions of use. Recommended: Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits.

Hands	: Use gloves appropriate for work or task being performed. Not required under normal conditions of use. Recommended: Natural rubber (latex).
Eyes	: Safety eyewear should be used when there is a likelihood of exposure. Not required under normal conditions of use. Recommended: Safety glasses with side shields.
Skin	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. No special protective clothing is required. 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.

9. Physical and chemical properties

Physical state	: Liquid
VOC	: 12.6% (w/w)
Solubility	: Miscible in water.

10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: Avoid exposure during pregnancy.
Materials to avoid	: No specific data.
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
Ethylene glycol	LD50 Oral	Rat	4700 mg/kg	-

Chronic toxicity

Carcinogenicity / Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Ethylene glycol	A4	-	-	-	-	-

12. Ecological information

Environmental effects : No established

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Ethylene glycol	Acute LC50 100000 ug/L Marine water	Crustaceans-Crandon crandon-Adult	48 hours
	Acute LC50 6900000 to 8800000 ug/L Fresh water	Daphnia-Cariodaphnia dubia-Neonate	48 hours
	Acute LC50 8050000 ug/L Fresh water	Fish-Pimephales promelas-<=7 days	96 hours
	Chronic NOEC 11610000 ug/L Fresh water	Daphnia-Ceriodaphnia dubia-<=24 hours	48 hours
	Chronic NOEC 6090000 ug/L Fresh water	Fish-Pimephales promelas-<=7 days	96 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

TDG/IMDG/IATA : Not regulated.

15. Regulatory information

WHMIS (Canada) : Class D-2A: Material causing other toxic effect (very toxic).
 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: Ethylene glycol
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): Not determined
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.

16. Other information

WHIMIS (Canada) : 

References : NASI Z400.1, MSDS Standard, 2004. – Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64, December 31st, 1987. Hazardous Products "Ingredient Disclosure List"-Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

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 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.