

MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT IDENTIFICATION

Product Name: mr natural® Rapid Mold Cleaner
Product Use: Rapidly removes fungal stains in minutes
D.O.T. Classification: Class 8 Corrosive - UN 1791
TDG Classification: Limited quantity exemption under regulation 1.17 0.5L
Manufacturer: mr natural® environmental engineers
Address: 400-601 W. Broadway, Vancouver, BC, Canada V5Z 4C2
Telephone: (604) 267-3004
Emergency Phone: (604) 267-3004

HEALTH	2
FLAMMABILITY	0
REACTIVITY	2

SECTION II – COMPOSITION / INFORMATION ON INGREDIENTS

DESCRIPTION: Hazardous product
IDENTIFICATION:

Sodium Hypochlorite	CAS# 7681-52-9	Weight: 5-7%
Proprietary:	Non-toxic surfactants (proprietary)	
Remaining substance:	Water	

SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 – No ingredients above reportable quantities.
 Toxic Substances Control Act (TSCA) – All the ingredients are listed or exempt from listing on the Chemical Substance Inventory. California Proposition 65 – No ingredients listed.
 WHMIS Ingredient Disclosure List & WHMIS Controlled Products: No ingredients listed.

SECTION III – PHYSICAL AND CHEMICAL DATA

Boiling Point (°C): Not applicable	Specific Gravity (H₂O=1): 1.047
Vapor Pressure (mm Hg): Not available	% Volatile (Wt%): Not established
Vapor Density (Air = 1): Not available	Evaporation Rate: Not available
Solubility: Not Soluble	pH (100%): >12.3
Physical State: Liquid	Viscosity: As per water
Appearance: Yellowish Transparent solution	Odour: Chlorine
Freeze-Thaw Stable: Not available	Odour Threshold: Not established

SECTION IV – FIRE AND EXPLOSION DATA

Flammability: Not flammable by WHMIS or OSHA criteria	LEL: Not applicable
Hazardous Combustion Products: None	UEL: Not applicable
Auto-ignition Temperature: Non-combustible	
Hazardous Combustion Decomposition: Oxides of Carbon	

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SECTION V – REACTIVITY DATA

Stability and reactivity: Stable under recommended conditions and expected usage.
Conditions to avoid: Contact with metals and acidic products, heat and sunlight.
Incompatible materials: Strong oxidants and acids.
Hazardous decomposition products: Carbon oxides.
Polymerisation: No.

SECTION VI – ECOLOGICAL DATA

Environmental Fate: "Biodegradable" (>81.4% in 28 days, OECD 301D Method)

Hazardous ingredient	CAS	%(weight)	Value	Species
Sodium Hypochlorite	7681-52-9	5 - 7%	2.1 mg/L	Daphnia magna, 96hr

SECTION VIII – PREVENTATIVE MEASURES

Gloves: Chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin.
Eye Protection: Goggles to prevent mist, vapours or dust to contact eyes.
Respiratory Protection: Respiratory protection is required if concentration are above exposure limits. Use a NIOSH approved autonomous respiratory apparatus if exposure limits are unknown.
Other Protective Equipment: As required by employer code. Eye bath, safety shower, protective clothing.
Engineering Controls: Increased ventilation recommended to maintain concentrations below exposure limits.

SECTION VIII – TOXICOLOGICAL INFORMATION

Toxicological data:

Hazardous ingredient	CAS#	%(weight)	DL50 (route, species)	CL50 (species)
Sodium Hypochlorite	7681-52-9	5 - 7 %	>10,000 mg / Kg (Dermal lapin) > 13,000 mg / Kg (Oral rat)	Not available

Short term exposure (acute)
Inhalation: May irritate respiratory tract. May cause difficulties breathing.
Skin: Causes skin irritation. Redness, oedema, chemical burns.
Eyes: Causes serious eye damage. Redness, tearing, chemical burns.
Ingestion: Causes irritation of mouth, throat, and digestive tract.
Long term exposure (chronic)
Inhalation: Not available
Skin: Not available
Eyes: Not available
Ingestion: Not available
Carcinogenicity: Not available
Teratogenicity: Not available
Mutagenicity: Not available

Target organ: Not available

Conditions aggravated by exposure: Not available

SECTION IX – FIRST AID

Inhalation: remove person to fresh air. If experiencing respiratory symptoms: Call a poison control center or physician.

Skin contact: Rinse skin with water for 20 minutes. Remove all contaminated clothing. If skin irritation or rash occurs, get medical advice/attention. Wash all contaminated clothing/ jewellery before reuse. Do not neutralize with acid.

Eye contact: Rinse cautiously with water for several minutes. Contact lenses should be removed if present and continue rinsing. If eye irritation persists, get medical advice or attention. Do not neutralize with acid.

Ingestion: Thoroughly rinse mouth with water. Do not give anything orally if victim is losing consciousness, is unconscious or having convulsions. Do not induce vomiting. Victim should try to drink at least two glasses of water. If vomiting occurs naturally, proceed followed by drinking water. Obtain medical care.

SECTION X – TRANSPORTATION

UN Number	Proper shipping name	Class	Packing group
UN1791	SODIUM HYPOCHLORITE SOLUTION	8	III

CLASSIFICATION OF THE US DEPARTMENT OF TRANSPORTATION (49CFR172.101, 172.102)

UN1791, HYPOCHLORITE SOLUTION, Class 8, GE II.

Label: Corrosive material. Danger plate: Corrosive material.

CERCLA-RQ: 100 lb / 45.4 kg.

Exemptions: This product is not regulated by transport when the concentration is less than 7%.

SECTION XI – REGULATORY INFORMATION

Canadian Environmental Protection Act: Components of this product are listed in the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt.

Others: Components of this product are listed on the TSCA or are exempt. PCP # 32162

SECTION XII – PREPARATION INFORMATION

Date: 2013/01/19 **MSDS Prepared by:** mr natural® environmental engineers **Telephone:** (604) 267-3004

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