

MATERIAL SAFETY DATA SHEET

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Product.....> **MG-3610**

Section 1: Material Identification

Chemical Family..... Proprietary mixture
EPA Registration..... 84024-1-57365
DOT Ship Name..... Hypochlorite Solution
Hazard Class..... Class 8 UN1791 PGIII
Date Prepared..... July 7, 2008

Section 2: Ingredient and Hazards

Caution: severe skin & eye corrosive

<u>Hazardous Ingredient</u>	<u>Percent</u>	<u>Limits(TLV)</u>
stabilized bromine chloride mix CAS(proprietary)	9.0	none established

Section: 3 Physical Data

Boiling Point..... 223°F
Specific Gravity..... 1.29
Vapor Pressure..... 19.0 mm Hg @ 77°F
Vapor Density..... 1.0 (AIR=1)
Evaporation Rate..... same as water
Measured pH..... 12.0 - 13.0
Volatile organics..... 0.0 #/g
Viscosity..... 3 cps Brookfield @ 70°F
Water Solubility..... complete
Appearance..... pale yellow liquid
Odor..... mild aromatic odor

NOTE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS
PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

Abbreviation: n/a = not applicable n/d = not determined

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Section: 4 Fire and Explosion Data

Flash Point, F, COC.....	not established, not a fire hazard
Flammable Limits.....	LFL: n/a UFL: n/a
Auto Ignition Temp....	n/a
Extinguishing Media...	water, fog, foam, carbon dioxide, dry chemical
Special Procedures....	avoid breathing fumes
Unusual Fire Hazards..	decomposition products of bromine & chlorine maybe toxic, use self contained breathing apparatus.

Section 5: Health Hazard Data

Threshold Limit Value..	none established
Carcinogen.....	not considered to be a carcinogen by the National Toxicology Program.

* ROUTES OF EXPOSURE * EYE & DERMAL

Eye Contact.....	contact can cause irreversible corneal injury.
Skin Contact.....	corrosive to skin.
Inhalation.....	limited possibility of over exposure.
Oral.....	harmful if swallowed, LD ₅₀ 2,491 mg/kg.

* EMERGENCY FIRST AID *

Eyes.....	immediately flush with water 15 minutes, seek medical attention.
Skin.....	immediately flush with water 15 minutes, remove clothing
Inhalation.....	move to fresh air.
Ingestion.....	Do not induce vomiting. Drink large quantities of water. Get immediate medical attention.

Section 6: Reactivity Data

Stability.....	stable
Incompatibility.....	heat, alcohols, acids, aldehydes, reducing agents, ammonia.
Decomposition Products..	High heat causes bromine & chlorine products.
Hazardous Polymerization	will not occur
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Section: 7 Ecological Information

Oral LD ₅₀ (TOX).....	2491 mg/kg
Bluegill Sunfish (96 hr LD ₅₀).....	3.8 mg/l
Green Alga (96 hr. LD ₅₀).....	2.6 mg/l
Daphnia Magna (48 hr. LD ₅₀).....	4.8 mg/l

Section: 8 Environmental Protection Procedures

Spill..... pesticide wastes are acutely hazardous. Improper disposal is a violation of federal law. Absorb larger spills onto sand or other absorbent material. Shovel into sealable containers. Do not allow contact with natural waterways.

Waste Disposal..... Collect waste liquid in sealed containers and landfill or incinerate following state or local regulations for D002 waste liquids.

Reportable Quantities... CERCLA RQ - spills exceeding 903 gallons

SARA Title III Sec 313.. No components listed.

TSCA Listed..... All components of this product are listed on Toxic Substances Control Act Inventory.

Section: 9 Control Measures/Special Protection

Respiratory Protection.. provide good ventilation
Ventilation Recommended. provide local exhaust
Protective Gloves..... chemical resistant
Eye Protection..... wear safety glasses when handling concentrate.
Other Equipment..... safety/eye wash nearby
Work/Hygienic Practices: rinse & wash thoroughly after handling with clean water.
Storage..... store away in cool location, do not allow to freeze or exceed temperatures above 100°F.

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Section: 10

ADDITIONAL INFORMATION

HMIS Rating Code: HMIS

	0 = minimal
	1 = slight
Health..... 3	2 = moderate
Flammability..... 0	3 = serious
Reactivity..... 2	4 = severe
Personal Protection... B	B = safety glasses, rubber gloves

The information provided relates to the specific material designated and may not be valid for such material combined with other materials outside the scope of intended usage. No representation, warranty or guarantee is made and it remains the user's responsibility to confirm by other investigation as to safe material application. We do not accept liability for loss or damage that may occur from the use of this information.