

MATERIAL SAFETY DATA SHEET

Broadmoor Products Incorporated
4201 Brockton Dr SE
Grand Rapids MI 49512

Phone: (616) 285-6440
FAX : (616) 285-5503

Product.....> **MG-3900**

Section: 1 Material Identification

Chemical Family..... aqueous mixture
DOT Ship Name..... Hypochlorite Solutions
DOT Hazard Class..... Class 8 UN1791 PGII
Date Prepared..... December 28, 2007

Section: 2 Ingredient and Hazards

HAZARD: severe corrosive to eyes

<u>Ingredients</u>	<u>Percent</u>	<u>Limits (TLV)</u>
sodium hypochlorite (CAS 7681-52-9)	<20	not established
sodium hydroxide (CAS 1310-73-2)	< 2	2 mg/m ³

Section: 3 Physical Data

Boiling Point..... >230°F
Specific Gravity..... 1.21
Vapor Pressure..... <17 mm Hg 68°F
Vapor Density..... >1.0 (AIR=1)
Evaporation Rate..... 1.0 (Water=1)
Solubility in water... complete
Measured pH (neat).... 12.0
Total solids..... 12.5%
Total water content... 87.5%
Volatile organics..... 0.0 #/g
Appearance..... light yellow liquid
Odor..... chlorine odor

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

MATERIAL SAFETY DATA SHEET

Product.....> **MG-3900**

Section: 4 Fire and Explosion Data

Flash Point, F, COC..... not combustible
Flammable Limits..... LEL: n/a UEL: n/a
Auto Ignition Temp.... n/a
Extinguishing Media... water, carbon dioxide, dry or foam.
Special Procedures.... use SCBA gear with full face shield.
Unusual Fire Hazards.. heat decomposition will release chlorine.

Section: 5 Health Hazard Data

Threshold Limit Value.. not established
Carcinogen..... no

*** ROUTES OF EXPOSURE *** **EYE & DERMAL**
Eye Contact..... prolonged contact may cause moderate to severe chemical burns. Flush promptly.
Skin Contact..... may cause irritation.
Inhalation..... heavy mist may be irritating to mucous membranes of the nose, throat and lungs.
Oral..... may chemically burn mouth, throat and gastrointestinal system.

*** EMERGENCY FIRST AID ***
Eyes..... flush with water 15 minutes, seek medical attention.
Skin..... flush with water 15 minutes, remove clothing.
Inhalation..... move to fresh air
Ingestion..... Give several glasses of milk, water or gelatine mixture. No not give acids or vinegar. DO NOT induce vomiting. Get immediate medical attention.

Section: 6 Reactivity Data

Stability..... stable
Incompatibility..... nickel, copper, iron or acidic materials.
Decomposition Products.. chlorine, hypochlorous & hypochloric acid
Hazardous Polymerization will not occur
Abbreviations: n/a = not applicable n/d = not determined

MATERIAL SAFETY DATA SHEET

Product.....> **MG-3900**

Section: 7 Environmental Protection Procedures

Spill..... absorb large spills onto sand or other absorbent material. Reduce chlorine with bi-sulfites. Shovel into sealable containers. Flush small amounts to sewer with copious amounts of water. Do not allow contact with natural waterways.

Waste Disposal..... Dispose large quantities following proper federal, state or local regulations where applicable.

Reportable Quantities... None

TSCA Listed..... no components of this product are listed on Chemical Substances Inventory.

Section: 8 Control Measures/Special Protection

Respiratory Protection.. use with adequate ventilation.

Ventilation Recommended. provide local exhaust.

Protective Gloves..... chemical or solvent resistant material.

Eye Protection..... chemical goggles or face shield.

Other Equipment..... safety/eye wash nearby.

Work/Hygienic Practices: wash thoroughly with soap after handling.

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

MATERIAL SAFETY DATA SHEET

Product.....> MG-3900

Section: 9 **ADDITIONAL INFORMATION**

<u>HMIS Rating Code: HMIS</u>	0 = minimal
Health..... 3	1 = slight
Flammability..... 0	2 = moderate
Reactivity..... 2	3 = serious
Personal Protection... C	4 = severe
	C = safety glasses, rubber gloves, rubber apron.

The information provided relates to the specific material designated and may not be valid for such material used in combination 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.