

MATERIAL SAFETY DATA SHEET

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Product.....> **MG-4205**

Section 1: Material Identification

Chemical Family..... proprietary aqueous mixture.
DOT Ship Name..... Oxidizing Liquid NOS
Hazard Class..... Class 5.1 UN3139 PGIII
Date Prepared..... January 22, 2008

Section 2: Ingredient and Hazards

Hazards: oxidizer, oral toxin, skin & eye irritant

<u>Hazardous Ingredient</u>	<u>Percent</u>	<u>Limits (TLV)</u>
sodium nitrite CAS(7632-00-0)	<11	none established
sodium tetraborate pentahydrate CAS(1330-43-4)	< 3	1 mg/m ³
potassium hydroxide CAS(1310-58-3)	< 1.5	2 mg/m ³

Section: 3 Physical Data

Boiling Point..... >215°F
Specific Gravity..... 1.0822
Vapor Pressure..... 17.0 mm Hg @ 68°F
Vapor Density..... 1.0 (AIR=1)
Evaporation Rate..... 1.0 (WATER=1)
Measured pH..... 12.0
Water Solubility..... complete
Appearance..... red liquid
Odor..... mild

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

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Section: 4 **Fire and Explosion Data**

Flash Point, F, COC.....	none
Flammable Limits.....	LFL: n/a UFL: n/a
Auto Ignition Temp....	n/d
Extinguishing Media...	water fog, foam, carbon dioxide, dry chemical
Special Procedures....	none
Unusual Fire Hazards..	material can supply oxygen to stimulate combustion of organics. Decomposition products maybe toxic, (nitrogen oxide). Use self contained breathing apparatus.

Section 5: **Health Hazard Data**

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

*** ROUTES OF EXPOSURE *** **DERMAL & INHALATION**

Eye Contact.....	can cause local transient irritation.
Skin Contact.....	may cause irritation if contact is prolonged.
Inhalation.....	dust or mist of solution may irritate respiratory tract.
Oral.....	LD ₅₀ (rats) 85 mg/l, large amounts may cause acute toxic effects, nausea, marked fall in blood pressure leading to collapse, coma and possibly death. Possible CNS depression upon over exposure, potential liver and kidney toxin.

*** EMERGENCY FIRST AID ***

Eyes.....	flush with water 20 minutes
Skin.....	flush with water 15 minutes, remove clothing
Inhalation.....	move to fresh air
Ingestion.....	drink large quantities of water. Induce vomiting. If blue skin appears, administer oxygen by a qualified operator. Get immediate medical attention

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Section 6: Reactivity Data

Stability.....	stable
Incompatibility.....	strong or weak acids, ammonium compounds, reducing agents and certain organics.
Decomposition Products..	toxic, nitrogen oxide gas, caustic residue.
Hazardous Polymerization	will not occur

Section: 7 Environmental Protection Procedures

Spill.....	absorb 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. Spent material may be an EPA regulated waste. Dispose of following state or local regulations for combustible liquids.
Reportable Quantities...	55 gallons as product
TSCA Listed.....	all components of this product are listed on Chemical Substances Inventory.

Section: 8 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 from heat, sparks or open flames.

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Section: 9

ADDITIONAL INFORMATION

HMIS Rating Code: HMIS

0 = minimal

1 = slight

Health..... 2

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.