Julio/KTL

MATERIAL SAFETY DATA SHEET

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Product............> **MG-5003**

Section: 1	Material Identification

Chemical Family.......	organic phosphonate & polymer blend
DOT Ship Name.........	Compound, Industrial Process Water Treating
DOT Hazard Class......	Not Regulated (ITEM 50227)
Date Prepared........	January 24, 2002

Section: 2	Ingredient and Hazards

CAUTION: slightly corrosive liquid, irritation skin & eye

Ingredients	Percent	Limits(TLV)
acrylic terpolymer (Trade secret)	<10	not established
1-hydroxyethylidene-1,1-di-phosphonic K salt (CAS 2809-21-4)	< 8	not established
potassium hydroxide CAS(1310-58-3)	< 2	2 mg/m^3
sodium tolyltriazole (CAS 64665-57-2)	< 1	not established

Section: 3	Physical Data

Boiling Point.........	>215°F
Specific Gravity......	1.0483
Vapor Pressure.......	<15 mm Hg 68°F
Vapor Density........	>1.0 (AIR=1)
Evaporation Rate......	1.0 (Water=1)
Measured pH (neat)....	11.2
Total solids.........	10.1%
Total water content...	89.9%

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

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Section: 3	Physical Data	continued

Volatile organic......   0.0 #/g
Appearance............   light amber liquid
Odor..................   mild odor

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 with full face shield
Unusual Fire Hazards..   none

Section: 5	Health Hazard Data

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

* ROUTES OF EXPOSURE *   DERMAL
Eye Contact............   prolonged contact may cause moderate
                           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 be irritating to the 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.   Induce
                           vomiting, if conscious.   Get immediate
                           medical attention.

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Product..............>   **MG-5003**

Section: 6	Reactivity Data

Stability................ stable
Incompatibility.......... strong acids
Decomposition Products.. none hazardous
Hazardous Polymerization will not occur

Section: 7	Environmental Protection Procedures

Spill...................... absorb large spills onto sand or other absorbent material. 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................ all components of this product are listed on Toxic Substances Chemical Act inventory list.

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.

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Section: 9   ADDITIONAL INFORMATION
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<u>HMIS Rating Code:</u> HMIS   0 = minimal
                                        1 = slight
Health................ ⁻1   2 = moderate
Fire.................. 0   3 = serious
Reactivity............ 0   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 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
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