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MATERIAL SAFETY DATA SHEET

IN CASE OF TRANSPORTATION EMERGENCY (Spill, Leak, Fire, Exposure, Accident)
Call CHEMTREC 1-800-424-9300 (24 Hour)

SECTION 1: IDENTIFICATION

Name: MAGNUM/MAJESTIC SILVERPLATE RTU ACTIVATOR

Revision 12/16/2004

Product Number 3143595202

Size Various

Formula: Aqueous Alkaline Solution

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

| <u>C.A.S. #</u> | <u>INGREDIENTS</u> | <u>%</u> |
|-----------------|-------------------------|----------|
| 111-41-1 | AMINO-ETHYLETHANOLAMINE | 1-5 |
| 1310-73-2 | SODIUM HYDROXIDE | 1-5 |
| 7732-18-5 | WATER | 90-95 |
| 7757-83-7 | Sodium Sulfite | 1-5 |

| <u>EXPOSURE LIMITS</u> | <u>OSHA</u> | | <u>ACGIH</u> | | <u>CANADA</u> | |
|-------------------------|-------------|-------------|--------------|-------------|---------------|-------------|
| | <u>TWA</u> | <u>STEL</u> | <u>TWA</u> | <u>STEL</u> | <u>TWA</u> | <u>STEL</u> |
| AMINO-ETHYLETHANOLAMINE | None | None | None | None | None | None |
| SODIUM HYDROXIDE | 2 mg/m3 | None | None | None | None | None |
| WATER | None | None | None | None | None | None |
| Sodium Sulfite | None | None | None | None | None | None |

Source of Exposure Limit Data:

OSHA: Occupational Safety and Health Administration

ACGIH: American Conference of Governmental Industrial Hygienists

CANADA: Province of Alberta's Occupational and Health and Safety Act.

ADDITIONAL EXPOSURE INFORMATION

| <u>CAS. NUMBER</u> | <u>SKIN DESIGNATION *</u> | | | <u>CARCINOGENS</u> | | | <u>PRIMARY HAZARD</u> | <u>IDLH (ppm)</u> |
|--------------------|---------------------------|--------------|---------------|--------------------|------------|-------------|-----------------------|-------------------|
| | <u>OSHA</u> | <u>ACGIH</u> | <u>CANADA</u> | <u>IARC</u> | <u>NTP</u> | <u>OSHA</u> | | |
| 111-41-1 | No | No | No | No | No | No | Not classified | None |
| 1310-73-2 | No | No | No | No | No | No | Sensory irritation | 250 mg/m3 |
| 7732-18-5 | No | No | No | No | No | No | Not classified | None |
| 7757-83-7 | No | No | No | No | No | No | Not classified | None |

* For substances designated as a 'Skin' hazard, protective measures are recommended to prevent or reduce skin absorption. These measures may include the use of gloves, aprons, goggles or other equipment, as well as engineering controls or work practices.

SECTION 3: HAZARDS IDENTIFICATION

EYES CONTACT:

May cause slight eye irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Prolonged or repeated contact with aqueous solutions may cause irritation.

INHALATION:

May cause irritation to nasal mucous membranes and respiratory tract.

INGESTION:

Ingestion of liquid may cause gastrointestinal distress.

H.M.I.S. CODES: HEALTH: 2 FIRE: 0 REACTIVITY: 0 PROTECTION: NONE

SECTION 4: FIRST AID MEASURES

EYE CONTACT:

Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Contact physician immediately. preferably an ophthalmologist)

SKIN CONTACT:

Rinse with copious amounts of water and/or wash with soap and water for at least 15 minutes. If irritation occurs, contact physician.

INHALATION:

Remove victims to fresh air, if not breathing, have certified person administer CPR. Contact physician immediately.

INGESTION:

Administer 2-4 glasses water. Contact physician or poison control center immediately.

SECTION 5: FIRE FIGHTING MEASURES

Flash point (F) : N/A **FLAMMABILITY LEL- UEL-**

Extinguishing media: Any applicable to primary cause of fire.

Special fire fighting procedures :

Self contained breathing apparatus with full face shield and protective clothing should be worn in fighting fires involving chemicals.

Unusual fire and explosion hazards :

NONE

NATIONAL FIRE PROTECTION ASSOC. CODES

HEALTH: 2 FIRE: 0 REACTIVITY: 0 SPECIAL: NONE

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE:

Dike spill and soak up with sand or a commercially available spill kit, sweep up absorbent and place in suitable container for disposal. Wash area with a suitable cleaner and rinse.

SECTION 7: HANDLING AND STORAGE

For Industrial Use Only. Store in well ventilated area. Keep container closed when not in use. Remove and wash contaminated clothing immediately. Do not store food, drink, or tobacco in area where they may become contaminated with this material. Store above 32 deg. F.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Not needed for recommended handling.

VENTILATION: local exhaust recommended: **MECHANICAL (General):** Should be sufficient.

SKIN PROTECTION: Latex, Rubber or Neoprene Waterproof gloves and apron may be worn.

EYES PROTECTION: Safety glasses with side shields or goggles may be worn.

OTHER PROTECTION EQUIPMENT: Rubber or plastic apron.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling point (F) : 221
Melting point: N/A
Percent volatile by volume : N/D
Evaporation rate: 1
Specific gravity (water = 1) : 1.07
Appearance : CLEAR LIQUID

Volatile Organic Compounds: NONE
Vapor pressure: N/D
Vapor density: N/D
Solubility in water: 100%
pH: >13
Odor: Odorless.

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable
Hazardous polymerization: Will not occur
Incompatibility (materials to avoid): STRONG ACIDS, OXIDIZERS
Hazardous decomposition products: OXIDES OF SULFUR

SECTION 11: DISPOSAL CONSIDERATIONS

Remove free liquid and dispose of in accordance with Federal, State, and local regulations. All labeled precautions must be observed when handling, storing and transporting empty product containers due to residues. Do not re-use containers. Triple rinse containers before disposal. Dispose of in a licensed facility. recommended crushing or other means to prevent re-use.

SECTION 12: TRANSPORTATION INFORMATION

SHIPPING NAME: POTASSIUM HYDROXIDE, SOLUTION

UN ID-#: 1814

PACKING GROUP: II

MAJOR CLASS: 8

PRIMARY LABEL: CORROSIVE

MINOR CLASS: N/A

SECONDARY LABEL: N/A

REMARKS: REGULATED MATERIAL

* Reference: CFR 49, Table 172.102 (highway)

SECTION 13: REGULATORY INFORMATION

| <u>CAS. NUMBER</u> | <u>CERCLA</u> | <u>SARA-EHS</u> | <u>SARA-313</u> | <u>RCRA</u> | <u>CAL-PROP 65</u> | <u>N.J.</u> | <u>FLA.</u> |
|--------------------|---------------|-----------------|-----------------|-------------|--------------------|-------------|-------------|
| 111-41-1 | No | No | No | No | No | No | Yes |
| 1310-73-2 | Yes | No | No | No | No | No | Yes |
| 7732-18-5 | No | No | No | No | No | No | No |
| 7757-83-7 | No | No | No | No | No | No | No |

* Specific CAS Number references from these regulatory tables:

CERCLA: 40 CFR. Table 302.4

CAL-PROP 65: California Proposition 65, Developmental and Reproductiv

SARA-EHS: 40 CFR. 355 Appendices A _B

New Jersey Right to Know

SARA-313: 40 CFR. section 372.65

Florida Right to Know

RCRA: 40 CFR. section 261.3

SECTION 14: OTHER INFORMATION

Comments: None

The data in this Material Safety Data form relates to the specific material designated herein and to the standard use of same in combination with other materials or processes. The hazards covered are believed to be those most likely to occur in the reasonable, contemplated, or ordinary use of these chemicals. No warranty is made or implied in respect of other hazards which may occur as a result of unreasonable, abnormal, or unusual usage, or non-standard application of these materials. The information accumulated herein is believed to be accurate, but GraphLine Inc. expressly denies any warranty to such effect. Customers or recipients are advised to confirm, in advance that the information is current, applicable and suitable to their circumstances. This information is furnished as a service only.