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## E M SCIENCE, A DIV OF E M INDUSTRIES INC. -- UREA ITEM NUMBER 0400600 -- 6810-00-782-6521

======== Product Identification ============

Product ID:UREA ITEM NUMBER 0400600

MSDS Date:03/01/1990

FSC:6810

NIIN:00-782-6521

MSDS Number: BMZXC === Responsible Party ===

Company Name: E M SCIENCE, A DIV OF E M INDUSTRIES INC.

Address:111 WOODCREST RD

City: CHERRY HILL

State:NJ

ZIP:08034-0395 Country:US Info Phone Num

:609-354-9200 FAX: 609-423-4389

Emergency Phone Num:609-354-9200 OR 800-424-9300

CAGE:EO379

=== Contractor Identification ===

Company Name: CURTIN MATHESON SCIENTIFIC INC

Address:2140 NEW MARKET ST PKY SUITE 120

Box:7809

City:MARIETTA

State:GA ZIP:30065 Country:US

Phone:800-424-9300 (CHEMTREC)

CAGE:0B026

Company Name: E M SCIENCE DIV OF E M INDUSTRIES INC

Address: 480 DEMOCRAT ROAD

Box:70

City:GIBBSTOWN

State:NJ ZIP:08027 Country:US

Phone:800-222-0342/609-423-6300

CAGE:63612

Company Name: E M SCIEN

CE, A DIV OF E M INDUSTRIES INC. Address:111 WOODCREST RD
Box:70
City:CHERRY HILL
State:NJ ZIP:08034-0395
Country:US
Phone:609-354-9200 FAX: 609-423-4389 CAGE:EO379
======= Composition/Information on Ingredients ========
Ingred Name:UREA
CAS:57-13-6 RTECS #:YR6250000
Fraction by Wt: 100%
Other REC Limits:NONE SPECIFIED
=========== Hazards Identification =============
LD50 LC50 Mixture:ORAL LD50 (RAT) IS 8210 MG/KG
Routes of Entry: Inhalation:YES Skin:NO In
gestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: MAY BE HARMFUL IF SWALLOWED.
CONTACT WITH HEATED MATERIAL MAY CAUSE THERMAL BURNS. DUST
INHALATION MAY IRRITATE NASAL AND RESPIRATORY PASSAGES.MAY CAUSE
IRRITATION OF SKIN, EYES OR MUCOUS MEMBR ANES ON CONTACT. CHRONIC: NONE SPECIFIED BY MANUFACTURER.
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED C
ARCINOGEN. Effects of Overexposure:INHALATION: COUGHING, WHEEZING, SHORTNESS OF
BREATH, SNEEZING. EYES: REDNESS, TEARING, BLURRED VISION. SKIN:
REDNESS, RASH, ITCHING. INGESTED: NAUSEA, VOMITING.
Medical Cond Aggravated by Exposure:PRE-EXISTING RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY EXPOSURE.
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First Aid:GET MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE. INHALATION: REMOVE PERSON TO FRESH AIR. RESUSCITATE

AS NEEDED. EYES: FLUSH WITH LOTS OF WATER FOR 15 MINUTES. SKIN: FLUSH WITH LOTS OF WATER. INGES TED: IF CONSCIOUS DRINK WATER, AND INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. Flash Point: NONCOMBUSTIBLE Extinguishing Media: MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. Unusual Fire/Explosion Hazard: TOXIC FUMES FORMED ON THERMAL DECOMPOSITION. REACTS WITH SODIUM HYPOCHLORITE OR CALCIUM HYPOCHLORITE TO FORM EXPLOSIVE NITROGEN TRICHLORIDE. ========= Accidental Release Measures ============= Spill Release Procedures: SWEEP OR SCOOP UP AND PLACE IN A CONTAINER FOR LATER DISPOSAL Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ============ Handling and Storage =========================== Handling and Storage Precautions: KEEP CONTAINER CLOSED. STORE AT CONTROLLED ROOM TEMPERATURE. Other Precautions: NONE SPECIFIED BY MANUFACTURER. ====== Exposure Controls/Personal Protection ======== Respiratory Protection: NONE NORMALLY REQUIRED. Ventilation: USE ADEQUATE LOCAL VENTILATION OR ADEQUATE MECHANICAL VENTILATION. Protective Gloves:BUTYL OR EQUIVALENT Eve Protection: SAFETY GLASSES WITH SIDE SHIELDS Other Protective Equipment: EYE WASH STATION & SAFETY SHOWER Work Hygienic Practices: WASH THOROUGHLY AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. Supplemental Safety and Health DO NOT TAKE INTERNALLY. DO NOT GET IN EYES, ON SKIN, OR CLOTHES. ========= Physical/Chemical Properties =========== HCC:N1 Boiling Pt:B.P. Text:DECOMPOSES Melt/Freeze Pt:M.P/F.P Text:270F,132C Spec Gravity:1.335 Solubility in Water: APPRECIABLE Appearance and Odor:WHITE CRYSTALS Percent Volatiles by Volume:0

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING A

======== Stability and Reactivity Data ==========

GENTS, SODIUM NITRARE, PHOSPHOROUS CHLORIDE (P2CL5),
NITROSYL PERCHLORATE
Stability Condition to Avoid:HEAT
Hazardous Decomposition Products:AMMONIA AND OXIDES OF NITROGEN AND CARBON.

======= Disposal Considerations ==========

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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