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 BIRMINGHAM ROAD
 BIRMINGHAM, NJ 08011
 EMERGENCY NO.: (609)893-1100
 PREPARED BY: REGULATORY AFFAIRS

DATE OF LAST
 REVISION
 03/13/90

SEC 1: PRODUCT
 PRODUCT IDENTIFIER: 3012/CMX-13, IONAC NM-60, IONAC NM-60/SG, IONAC NM-201/SG

CHEMICAL NAME: SULFONATED COPOLYMER OF STYRENE AND DIVINYLBENZENE IN HYDROGEN FORM, MIXED WITH TRIMETHYL AMINE FUNCTIONALIZED CHLOROMETHYLATED COPOLYMER OF STYRENE AND DIVINYLBENZENE IN HYDROXIDE FORM.

COMMON NAME: ION EXCHANGE RESIN

PRODUCT USE: WATER TREATMENT DEIONIZATION

SEC 2: INGREDIENTS

COMPOUND	CAS REGISTRY NO.	CONCENTRATION RANGE (%)
SULFONATED COPOLYMER OF STYRENE AND DIVINYLBENZENE IN HYDROGEN FORM	69011-20-7	20 - 30
TRIMETHYLAMINE FUNCTIONALIZED CHLOROMETHYLATED COPOLYMER OF STYRENE AND DIVINYLBENZENE IN HYDROXIDE FORM	69011-18-3	15 - 30
WATER	7732-18-5	50 - 60

SEC. 3 PHYSICAL DATA

PHYSICAL STATE: SOLID
 BOILING POINT (C): NOT APPLICABLE
 SPECIFIC GRAVITY: 1.2
 VAPOR DENSITY (AIR=1): 0.62 FOR WATER
 VAPOR PRESSURE (MM/HG): 17 AT 20 C FOR WATER
 SOLUBILITY IN WATER: INSOLUBLE
 COEFFICIENT OF WATER/OIL DISTRIBUTION: NOT APPLICABLE
 ODOR THRESHOLD (PPM): NOT APPLICABLE
 FREEZING POINT (C): 0
 PH: (IN AN AQUEOUS SLURRY)= 6-9
 EVAPORATION RATE (H2O=1): 1
 APPEARANCE: SPHERICAL BEADS
 ODOR: SLIGHTLY FISHY ODOR

SEC. 4 REACTIVITY DATA

NFPA REACTIVITY RATING: 0, STABLE
 CONDITIONS UNDER WHICH PRODUCT IS CHEMICALLY UNSTABLE: AT TEMPERATURES ABOVE 204 C DECOMPOSITION OCCURS. EXPLOSIVE REACTIONS CAN OCCUR IN THE PRESENCE OF STRONG OXIDIZING AGENTS.
 INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS SUCH AS NITRIC ACID.
 HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, STYRENE, DIVINYLBENZENE
 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SEC. 5 FIRE HAZARD:

NFPA FIRE HAZARD CLASS: 1, ABOVE 200 F(93 C)
 AUTO IGNITION TEMPERATURE (C): GREATER THAN 500
 FLASHPOINT (C): NOT APPLICABLE
 CONDITIONS OF FLAMMABILITY: NOT APPLICABLE
 MEANS OF EXTINCTION: DRY CHEMICAL, CARBON DIOXIDE OR WATER FOG
 UPPER FLAMMABLE LIMIT: NOT APPLICABLE
 LOWER FLAMMABLE LIMIT: NOT APPLICABLE
 HAZARDOUS COMBUSTION PRODUCTS: SAME AS REACTIVITY DATA SECTION
 EXPLOSION DATA:
 SENSITIVITY TO MECHANICAL IMPACT: NOT APPLICABLE
 SENSITIVITY TO STATIC DISCHARGE: NOT APPLICABLE
 SPECIAL FIRE FIGHTING PROCEDURES: WEAR MSHA/NIOSH APPROVED PRESSURE DEMAND, SELF-CONTAINED BREATHING APPARATUS. GUARD AGAINST CONTACT OF PRODUCT WITH EYE DURING SALVAGE OPERATION.

SEC. 6 TOXICOLOGICAL PROPERTIES (HEALTH HAZARDS):

NFPA HEALTH HAZARD: 1, SLIGHTLY HAZARDOUS

ROUTE OF ENTRY: EYE CONTACT

EFFECT OF ACUTE EXPOSURE TO PRODUCT: CAN PRODUCE MECHANICAL IRRITATION TO THE EYE. MAY CAUSE SKIN IRRITATION OF HYPERSENSITIVE PERSONNEL.

EFFECT OF CHRONIC EXPOSURE TO PRODUCT: MECHANICAL IRRITATION TO THE EYE AND SKIN IRRITATION TO HYPERSENSITIVE PERSONNEL.

EXPOSURE LIMITS: NOT APPLICABLE

SENSITIZATION TO PRODUCT: NOT APPLICABLE

REPRODUCTIVE TOXICITY: NOT APPLICABLE

MUTAGENICITY: NOT APPLICABLE

IRRITANCY OF PRODUCT: NOT APPLICABLE

CARCINOGENICITY: NOT APPLICABLE

TERATOGENICITY: NOT APPLICABLE

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: NOT APPLICABLE

SYMPTOMS OF EXPOSURE: RED, IRRITATED EYES, ITCHING AND FEELING THAT A PARTICLE EXISTS BETWEEN THE EYELID AND EYE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

NOT APPLICABLE

SEC. 7 FIRST AID MEASURES:

FLUSH EYES AND SKIN WITH COPIOUS QUANTITIES OF WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, SEE A PHYSICIAN. AMERICAN RED CROSS.

SEC. 8 PREVENTIVE MEASURES:

PERSONAL PROTECTIVE EQUIPMENT: WEAR IMPERVIOUS GLOVES AND SPLASH GOGGLES WHILE HANDLING ION EXCHANGE MATERIAL. LONG SLEEVE SHIRTS AND LONG TROUSERS ARE RECOMMENDED TO PREVENT SKIN CONTACT.

SPECIFIC ENGINEERING CONTROLS REQUIRED: NOT APPLICABLE

WORK/HYGIENIC PRACTICES: FLUSH PRODUCT FROM HANDS WITH SOAPY WATER. CARE SHOULD BE TAKEN TO AVOID CONTACT WITH EYES UNTIL HANDS HAVE BEEN COMPLETELY CLEANED. PRODUCT HAS A TENDENCY TO CLING TO SKIN DUE TO STATIC CHARGE. CARE MUST BE EXERCISED TO REMOVE ALL PRODUCT FROM SKIN. THE PRODUCT CAUSES AREAS TO BECOME EXTREMELY SLIPPERY WHEN SPILLED, AND CAN CAUSE FALLS. SWEEP UP SPILLED MATERIAL AND TRANSFER FOR PROPER DISPOSAL. WHEN TRANSFERRING PRODUCT TO OTHER CONTAINERS VIA HYDRAULIC (WATER) SLURRY ALL SAFETY PRACTICES ESTABLISHED FOR USE OF WATER IN THE WORKSPACE MUST BE OBSERVED.

SEC. 9 IN CASE OF SPILL OR LEAK:

SWEEP AREA OF PRODUCT, COLLECTING IN A CONTAINER FOR DISPOSAL. AREAS OF SPILL CAN BECOME EXTREMELY SLIPPERY. ALL NORMAL SAFETY PRECAUTIONS SHOULD BE OBSERVED.

WASTE DISPOSAL: NEW, UNUSED PRODUCT CAN BE DISPOSED OF AS ORDINARY TRASH IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. USED PRODUCT MUST BE TESTED FOR CONTAMINATION BY HAZARDOUS MATERIAL AND DISPOSED OF ACCORDINGLY.

SEC.10 HANDLING PROCEDURES AND EQUIPMENT: NO SPECIAL HANDLING IS REQUIRED BEYOND THOSE OUTLINED IN THIS MATERIAL SAFETY DATA SHEET. AVOID PACKING PRODUCT IN AN UNPROTECTED GLASS COLUMN. EXPANSION OF THE PRODUCT CAN CAUSE THE GLASS COLUMN TO SHATTER.

STORAGE REQUIREMENTS: AVOID FREEZING OR PROLONGED STORAGE ABOVE 50 C BECAUSE THE PRODUCT CONTAINS WATER WHICH WILL FREEZE AND DAMAGE PRODUCT OR DRY-OUT ALSO DAMAGING THE PRODUCT. AVOID CONTACT WITH STRONG OXIDIZING AGENTS SUCH AS NITRIC ACID.

SPECIAL SHIPPING INFORMATION: AVOID FREEZING.