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Product ID:MIL-P-24441/32 F-153 TY IV DK GRAY RO1.8 A MSDS Date:03/14/1998 FSC:8010 NIIN:01-380-2390 Status Code:A **MSDS Number: CLHXN** === Responsible Party === Company Name: AMERON INTERNATIONAL PROTECTIVE COATINGS GROUP Address:201 NORTH BERRY ST. Cit y:BREA State:CA ZIP:92821 Country:US Info Phone Num:714-529-1951 Emergency Phone Num: (800) 424-9300 Preparer's Name: HENRY SIMMONS Chemtrec Ind/Phone:(800)424-9300 CAGE:55849 === Contractor Identification === Company Name: AMERON INTERNATIONAL PROTECTIVE COATINGS GROUP Address:201 NORTH BERRY ST. Box:City:BREA State:CA ZIP:92821 Country:US Phone:714-529-1951 CAGE:55849

Ingred Name:MAGNESIUM SILICATE CAS:14807-96-6 RTECS #:WW2710 000 &It; Wt:35. OSHA PEL:SEE TABLE Z-3 ACGIH TLV:2 MG/M3

Ingred Name:BUTYL ALCOHOL CAS:71-36-3 RTECS #:EO1400000 &It; Wt:23.3 OSHA PEL:300 MG/M3;100 PPM ACGIH STEL:C152 MG/M3;C50 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:POLYAMINE ADDUCT &It; Wt:20.

Ingred Name:BENZYL ALCOHOL CAS:100-51-6 RTECS #:DN3150000 &It; Wt:10.

Ingred Name:BLACK IRON OXIDE CAS:12227-89-3 = Wt:10.

Ingred Name:AMINDO AMINE RESIN CAS:68443-08-3 = Wt:5.

===== Hazards Identification ====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:VAPOR OR SPRAY MIST OR SPATTERED MATERIAL CAN BE HARMFUL. IRRITATING TO EYES, SKIN AND IF INHALED; TO NOSE AND THROAT. EXCESSIVE OR PROLONGED INHALATION CAN CAUSE HEADACHE, NAUSEA OR DIZZINESS. REPEAT ED AND PROLONGED OCCUPATIONAL OVEREXPOSURES TO SOLVENTS IS ASSOCIATED WITH PERMANENT BRAIN AND NERVOUS SYSTEM. INTENTIONAL ABUSE, MISUSE OR OTHER MASSIVE EXPOSURE TO SOLVENTS MAY CAUSE MULTIPLE ORGAN DAMAGE AND/OR DEATH. Effects of Overexposure:SKIN: SEVERE IRRITANT. SEVERE BURNS. SENSITIZATION OR ALLERGIC REACTION, SUCH AS RASH OR HIVES. CAN BE ABSORBED THROUGH SKIN. INHALATION: SEVERE IRRITANT, LUNG INJURY. RESPIRATORY SENSITIZATION AND A LLERGIC REACTION SUCH AS ASTHMA. CENTRAL NERVOUS SYSTEM DAMAGE. REPEATED EXPOSURE TO IRON DUST CAN CAUSE SIDEROSIS. EYES: SEVERE IRRITANT. CORNEAL INJURY. IRREVERSIBLE BURNS AND DAMAGE. DO NOT W EAR C ONTACT LENSES WHEN USING THIS MATERIAL. INGESTION: HARMFUL IF SWALLOWED Medical Cond Aggravated by Exposure:KIDNEYS. LIVER. SKIN. EYES. RESPIRATORY. ALLERGIES.

First Aid:INHALATION: REMOVE TO FRESH AIR. RESTORE NORMAL BREATHING. TREAT SYMPTOMATICALLY. SEE PHYSICIAN. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. CONSULT PHYSICIAN IF IRRITATIO N PERSISTS. EYES: FLUSH IMMEDIA

TELY WITH PLENTY OF WATER

FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. INGESTION: DRINK 1 OR 2 GLASSES OF WATER TO DILUTE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCON SCIOUS PERSON. DO NOT INDUCE VOMITING (UNLESS METHANOL; LISTED IN SECTION 2). CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. TREAT SYMPTOMATICALLY.

Flash Point Method:SCC Flash Point:=35.6C, 96.F Lower Limits:1.4% Upper Limits:11.

2%

Extinguishing Media:FOAM, CO2, DRY CHEMICAL

Fire Fighting Procedures:WEAR FULL PROTECTIVE EQUIPMENT, SELF-CONTAINED BREATHING APPARATUS. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT.

Unusual Fire/Explosion Hazard:CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT AND PRESSURE BUILDUP. MAY PRODUCE A FLOATING FIRE HAZARD. ISOLATE FROM ELECTRICAL EQUIPMENT, SPARKS, HEAT, OR OPEN FLAMES. VAPORS M

AY SPREAD LONG DISTANCE, CAUSES FLASH FIRE OR IGNITE EXPLOSIVELY.

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. AVOID BREATHING VAPORS. VENTILATE AREA. USE ABSORBENT, INERT CLEANUP MATERIALS. (DO NOT USE SAWDUST.) REMOVE ABSORBENT MATERIAL WITH NON-SPARKING TOOLS. PLACE IN SEPARA TE CONTAINER. KEEP OUT OF SEWERS AND WATERWAYS. IF ENTRY IS THREATENED OR OCCURS, NOTIFY LOCAL AUTHORITIES.

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Handling and Storage Precautions: KEEP CONTAINER CLOSED, UPRIGHT WHEN NOT IN USE. STORE IN COOL, DRY, WELL-VENTILATED AREA. AVOID PROLONGED STORAGE TEMPERATURES ABOVE 100F. USE CAUTION WHEN POURING. AVOID BREATHING SANDING DUST. DO NO T WELD OR FLAME CUT ON EMPTY CONTAINER.

======= Exposure Controls/Personal Protection ===============

Respiratory Protection:WEAR NIOSH/MSHA CERTIFIED RESPIRATOR DESIGNED TO

REMOVE A COMBINATION OF PARTICULATES (DUST OR SPRAY MIST) AND VAPOR. WHEN BRUSHING, ROLLING OR SPREADING; SELECT THE APPROPRIATE RESPIRATORY PROTECTION FOR THE CONDITIONS.

Ventilation: IMPLEMENT ADMINISTRATIVE AND ENGINEERING CONTROLS TO REDUCE EXPOSURE. PROVIDE SUFFICIENT VENTILATION IN VOLUME AND PATTERN.

Eye Protection:WEAR SOLVENT RESISTANT GLASSES WITH SPLASH GUARDS OR FACE SHIELD.

Other Protective Equipment: DEPENDENT UPON APPLICATION METHOD, WEAR RESISTANT COVERALLS, G

LOVES AND SHOE COVERINGS TO PREVENT SKIN CONTACT. USE SPARK PROOF EQUIPMENT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, SMOKING OR USING THE TOILET. LAUNDER CONTAMINATED CLOTHING BEFORE USE. DESTROY CONTAMINATED LEATHER AND ABSORBENT SHOES WHICH CANNOT BE DECONTAMINATED.

Supplemental Safety and Health

Boiling Pt:=117.8C, 244.F Vapor Density:>AIR VOC Pounds/Gallon:339 Evaporation Rate & amp; Reference: SLOWER THAN BUTYL ACETATE Appearance and Odor: LIQUID, SOLVENT ODOR Percent Volatiles by Volume: 39.56

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS, ACIDS AND ALKALIES Stability Condition to Avoid:HEAT, OPEN FLAME, ARC OR SPARKS. EPOXIES UNDER UNCONTROLLED CONDITIONS.

Hazardous Decomposition Products:CO, CO2, NOX. IRON OXIDES FUMES. ALDEHYDES. TOXIC GASES OR FUMES. METHYL MERCAPTAN

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Waste Disposal Methods:PLACE IN SEPARATE, APPROPRIATE, CLOSED CONTAINER IN ACCORDANCE LOCAL, STATE, AND FEDERAL REGULATIONS. THIS MATERIAL HAS NOT BEEN TESTED BY TOXICITY CHARACTERISTIC LEACHING PROCEDURE.

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