

AMERON INTERNATIONAL PROTECTIVE COATINGS GROUP -- MIL-P-24441/32 F-153 TY IV DK GRAY
RO1.8 A -- 8010-01-380-2390

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

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.

City

: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

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===== Composition/Information on Ingredients =====

Ingred Name:MAGNESIUM SILICATE

CAS:14807-96-6

RTECS #:WW27100

00
< Wt:35.
OSHA PEL:SEE TABLE Z-3
ACGIH TLV:2 MG/M3

Ingred Name:BUTYL ALCOHOL
CAS:71-36-3
RTECS #:EO1400000
< 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
< Wt:20.

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

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

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

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===== Hazards Identification =====
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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 S

OLVENTS 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 WE

AR C ONTACT LENSES WHEN

USING THIS MATERIAL. INGESTION: HARMFUL IF SWALLOWED

Medical Cond Aggravated by Exposure:KIDNEYS. LIVER. SKIN. EYES.

RESPIRATORY. ALLERGIES.

===== First Aid Measures =====

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 IMMEDIAT

ELY 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.

===== Fire Fighting Measures =====

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 MA

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

===== Accidental Release Measures =====

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 SEPARATE CONTAINER. KEEP OUT OF SEWERS AND WATERWAYS. IF ENTRY IS THREATENED OR OCCURS, NOTIFY LOCAL AUTHORITIES.

===== Handling and Storage =====

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 NOT 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, GLOVES 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

===== Physical/Chemical Properties =====

Boiling Pt: =117.8C, 244.F

Vapor Density: >AIR

VOC Pounds/Gallon: 339

Evaporation R

ate & Reference: SLOWER THAN BUTYL ACETATE

Appearance and Odor: LIQUID, SOLVENT ODOR

Percent Volatiles by Volume: 39.56

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

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, NO_x. IRON OXIDES FUMES.
ALDEHYDES. TOXIC GASES OR FUMES. METHYL MERCAPTAN

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

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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