

AMERON INTERNATIONAL PROTECTIVE COATINGS GROUP -- HEAVY DUTY EPOXY NON-SKID NO. 411720 -- 8010-01-397-3806

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

Product ID:HEAVY DUTY EPOXY NON-SKID NO. 411720

MSDS Date:06/11/1997

FSC:8010

NIIN:01-397-3806

Status Code:A

MSDS Number: CKQQM

=== Responsible Party ===

Company Name:AMERON INTERNATIONAL PROTECTIVE COATINGS GROUP

Address:201 NORTH BERRY ST

City:BREA

Stat

e:CA

ZIP:92622-1020

Country:US

Info Phone Num:714-529-1951

Emergency Phone Num:(800)424-9300

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:IRON OXIDE RED

CAS:1309-37-1

RTECS #:NO7400000

< Wt:5.

OSHA PEL:5MG/M3

ACGIH TLV:

5MG/M3

Ingred Name:ALUMINO SILICATE

CAS:37244-96-5

< Wt:35.

OSHA PEL:5MG/M3

ACGIH TLV:5MG/M3

Ingred Name:ANTISKID AGGREGATE

CAS:68476-96-0

< Wt:10.

OSHA PEL:0.1 MG/M3

ACGIH TLV:0.1 MG/M3

Ingred Name:ALUMINUM OXIDE

CAS:1344-28-1

RTECS #:BD1200000

< Wt:30.

OSHA PEL:5MG/M3

ACGIH TLV:5MG/M3

Ingred Name:XYLENE

CAS:1330-20-7

RTECS #:ZE2100000

= Wt:1.03

OSHA PEL:100 PPM

ACGIH TLV:100 PPM

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:HIGH FLASH NAPHTHA VP= 2.7

CAS:64742-95-6

RTECS #

:WF3400000

= Wt:3.61

OSHA PEL:100 PPMM

Ingred Name:REACTIVE DILUTANT VP= 0.6

CAS:68609-97-2

< Wt:5.

Ingred Name:EPOXY RESIN

CAS:25068-38-6

RTECS #:CE6880000

< Wt:10.

Ingred Name:MANGANESE OXIDE

CAS:1313-13-9

RTECS #:OP0350000

< Wt:5.

OSHA PEL:5MG/M3

ACGIH TLV:0.2MG/M3

Ingred Name:CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000

< Wt:5.

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3

entification =====

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

Health Hazards Acute and Chronic:SKIN: IRRITANT. SEENSITIZATION OR ALLERGIC REACTION, SUCH AS RASH OR HIVES. CAN BE ABSORED THROUGH SKIN. CAN CAUSE DEFATTING AND DRYING OF SKIN. INHALATION: IRRITANT. LUNG INJURY. RESPIRATORY SE NSITIZAQTION AND ALLERGIC REACTION SUCH AS ASTHMA. CENTRAL NERVOUS SYSTEM DAMAGE. CHEEMICAL PNEUMONIA. XYLENE OR TOLUENE MAY CAUSE IRREGULAR HEART BE AT.

EYES: IRRITANT. IRREVERSIBLE BURNS AND DAMAGE. INGESTION: HARMFUL IF SWALLOWED. ASPIRATION INTO LUNGS CAN DAMAGE LUNGS AND CAUSE CHEMICAL PNEUMONIA.

Effects of Overexposure: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. RE PEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS IS ASSOCIATED WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL ABUSE, MISUSE OR OTHER MASSIVE SEXPOSURE TO SOLVENTS MAY CAUSE MUL TIPLE ORGAN DAMAGE AND/OR DEATH. PROLONGED OR REEPEATED USE CAN AGGRAVATE OR ACCENTUATE ANY OF THESE EFFECTS.

Medical Cond Aggravated by Exposure:SKIN, EYES, RESPIRATORY, ALLERGIES, AND LUNGS.

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

First Aid:INHALATION:REMOVE TO FRESH AIR.RESTORE NORMAL BREATHING.TREAT SYMPTOMATICALLY.SEE PHYSI CIAN.SKIN:WASH WITH SOAP AND WATER.REMOVE CONTAMINATED CLOTHING.CONSULT PHYSICIAN IF IRRITATION PERSISTS.EYES:FLU SH IMMEDIATELY WITH PLENTY OF WATER FORAT LEAST 15 MINUTES AND GET MEDICAL ATTENTION.INGESTION:DRINK 1 OR 2 GLASSES OF WATER TO DILUTE.NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSIIOUS PERSON.DO NOT INDUC E VOMITING(UNLESS MEHTANOL LISTED IN INGREDIENTS).CONTACT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.TREAT SYMPTOMATICALLY.OTHER:TARGET ORGANS:KIDNEY S,LIVER,LUNGS,HEART,SKIN,EYES,STOMACH,CENTRAL N ERVOUS SYSTEM FETAL DEFECTS.

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

Flash Point:=-40.C, 104.F
104F

Lower Limits:1.0
Upper Limits:7.0

Extinguishing Media:CO2, FOAM, 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 EXTRME HEAT.

Unusual Fire/Expl

osion Hazard:CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT AND PRESSURE BUILDUP. MAY PRODUCE A FLOATING FIRE HAZARD. KEEP AAWAY FROM HEAT AND OPEN FLAME.

===== 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 100' F.

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

Respiratory Protection:WEAR NIOSH/MSHA CERTIFIED RES.DESIGNED-REMOVE

COMBINATION OF PARTICULATES(DUST/SPRAY MIST)&VAPOR.WH/BRUSHING,ROLLING/SPREADING SELECT APPROPRIATE RESP.PROTECTION FOR CONDITIONS.FOR SPECIFIC CONDITIONS ,REFER-CURRENT"NIOSH POCKET GUIDE-CHEMICAL HAZARDS".*

Ventilation:SEE ECOLOGICAL INFORMATION

Protective Gloves:YES

Eye Protection:SOLVENT RESISTANT GLASSES WITH SPLASH GUARDS OR FACE SHEILD

Other Protective Equipment:SEE TOXICOLOGICAL INFORMATION

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING,

SMOKIN OR USING TOILET. LAUNDER CONTAMINATED CLOTHING BEFORE USE.

Supplemental Safety and Health

*IN CONFINED/RESTRICTED VENTILATION AREAS USE AIR-LINE

RESP./HOODS.REFER-29CFR,OSHA PARTS1910.134&1915CONFINED SPACES;ANSI Z88.2,PRACTICES FOR RESP.PROTECTION.

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

Boiling Pt:>135.6C, 276.F

B.P. Text:276-336

Vapor Density:YES

Spec Gravity:17.8LBS/GALLON

VOC Pounds/Gallon:168

Evaporation Rate & Reference:0.60 BUTYL AC

ETATE=1

Appearance and Odor:LIQUID/ SOLVENT ODOR

Percent Volatiles by Volume:18.3

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, ACIDS, ALKALIES.

Stability Condition to Avoid:HEAT, OPEN FLAME, ARC OR SPARKS.

Hazardous Decomposition Products:CO, CO2, NOX, IRON OXIDE FUMES,
ALDEHYDES. ALUMINUM OXIDE FUMES.

===== Toxicological Information =====

Toxicological Information:PROTECTIVE

CLOTHING:DEPENDENT UPON

APPLICATION METHOD WEAR RESISTANT COVERALLS,GLOVES&SHOE
COVERINGS-PREVENT SKIN CONTACT.CONSULT 29 CFR 1910.132, 133, 136,
138; ANSI Z87.1 AN Z41. USE EXPLOSION AND SPARK PROOF EQUIPMENT.

TITANIUM DIOXIDE: LD50 10G/KG (DERMAL RABBIT), LC50 6820PPM
(INHALE, RAT) XYLENE: LD50 3.9G/KG (DERMAL, RABBIT) LC50 6700PPM
(INHALE, RAT) NAPHTHA: LD50 3.1 G/KG (DERMAL ,RABBIT) LC50 3670
PPM(INHALE, RAT) EPOXY RESIN: LD50 4G/KG (DERMAL, RABBIT)

MANGANESE OXIDE: LD50 0.40 G/KG (DERMAL, RABBIT)

===== Ecological Information =====

Ecological:IMPLEMENT ADMINISTRATIVE AND ENGINEERING CONTROLS TO REDUCE
EXPOSURE. PROVIDED SUFFICIENT VENTILATION IN VOLUME AND PATTERN TO
KEEP AIR CONTAMINANT CONCENTRATIONS BELOW THE TLV LIMITS. REMOVE
WELDING OR FLAME CUTTING DECOMPOSITION PRODUCTS, FOLLOW CURRENT
ANSI Z49.1, "SAFETY IN WELDING AND CUTTING." REFER TO 29 CFR PARTS
1910 AND 1915. FOR

COATING OPERATIONS; PART 1910.146, CONFINED
SPACES. EPA WASTE NO.: D001

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

Waste Disposal Methods:PLACE IN SEPARATE, APPROPRIATE, CLOSED CONTAINER
IN ACCORDANCE WITH ALL APPLICABLE LOCAL, DSTATE, AND FEDERAL
REGULATIONS. THIS MATERIAL HAS NOT BEEN TESTED BY TOXICITY
CHARACTERISTIC.

===== MSDS Transport Information =====

Transport Information:DOT: PAINT, DOT: FLAMMABLE UN# 126

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Regulatory Information
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SARA Title III Information: ALL INGREDIENTS ARE ON TSCA INVENTORY OR ARE EXEMPT. (SARA, CERCLA, HAPS) TOXIC CHEMICAL SUBJECT TO REPORTING REQUIREMENTS OF SAARA AND CERCLA (40 CFR 302, 355, 372) OR HAPS (40 CFR 63).

State Regulatory Information: CALIFORNIA PROPOSITION 65: WARNING! THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. WARNING! THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO

THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. 1) ALUMINO SILICATE 2) ANTISKID AGGREGATE 3) XYLENE 4) HIGH FLASH NAPHTHA 5) REACTIVE DILUENT

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Other Information
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