AMERON INTERNATIONAL PROTECTIVE COATINGS GROUP -- MULTI-PURPOSE EPOXY DV235 BASE -- 8010-01-316-6020

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

Product ID:MULTI-PURPOSE EPOXY DV235 BASE
MSDS Date:11/27/1996
FSC:8010
NIIN:01-316-6020
Status Code:A
MSDS Number: CLFGD
=== Responsible Party ===
Company Name:AMERON INTERNATIONAL PROTECTIVE COATINGS GROUP
Address:201 NORTH BERRY ST.
City:BREA
State:CA
ZIP:9282
1
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

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

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
< Wt:15.
OSHA PEL:1

5 MG/M3
ACGIH TLV:10 MG/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

Ingred Name:PHTHALOCYANINE BLUE
CAS:147-14-8
RTECS #:GL8510000
< Wt:5.

Ingred Name:CHROMIUM OXIDE
CAS:1308-38-9
RTECS #:GB6475000
< Wt:10.

Ingred Name:SYNTHETIC IRON OXIDE (YELLOW)
< Wt:10.

Ingred Name:MONOAZO YELLOW
< Wt:5.

Ingred Name:RED YELLOW PIGMENT
< Wt:5.

Ingred Name:ORANGE PIGMENT X
CAS:3468-63-1
RTECS #:QL3854000
< Wt:5.

Ingred
Name:IRON OXIDE (RED)
< Wt:10.

Ingred Name:IORN OXIDE (MICRONIZED RED)
< Wt:15.

Ingred Name:SILICA (QUARTZ)
< Wt:25.

Ingred Name:MAGNESIUM SILICATE
< Wt:35.

Ingred Name:MICA
CAS:12001-26-2
RTECS #:VV8760000
< Wt:15.
ACGIH TLV:3 MG/M3

Ingred Name:ALUMINUM FLAKE
< Wt:10.

Ingred Name:VM & P NAPHTHA
= Wt:2.7

ame:HIGH FLASH NAPHTHA
= Wt:5.84

Ingred Name:BUTYL ALCOHOL
CAS:71-36-3
RTECS #:EO1400000
= Wt:7.7
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:PROPYLENE GLYCOL METHYL ETHER ACETATE
= Wt:1.57

Ingred Name:METHYL N-PENTYL KETONE
CAS:110-43-0
RTECS #:MJ5075000
= Wt:2.23
OSHA PEL:465 MG/M3;100 PPM
ACGIH TLV:233 MG/M3;50 PPM

Ingred Name:POLYSILOXANE COPOLYMER ADDITIVE
< Wt:5.

Ingred Name:REACTIVE DILUENT
< Wt:5.

Ingred Name:
POLYISOCYANATE RESIN
< Wt:5.

Ingred Name:EPOXY RESIN
< Wt:20.

Ingred Name:EPOXY RESIN
< Wt:25.

Ingred Name:HYDROCARBON RESIN
< Wt:15.

Ingred Name:1,2,4-TRIMETHYLBENZENE
CAS:95-63-6
RTECS #:DC3325000
= Wt:4.33

========== 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 NOS

E AND THROAT. EXCESSIVE OR PROLONGED INHALATION CAN CAUSE HEADACHE, NAUSEA OR DIZZINESS. REPEA TED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS IS ASSOCIATES WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL ABUSE, MISUSE OR OTHER MASSIVE EXPOSURE TO SOLVENTS MAY CAUSE MULTIPLE ORGAN DAMAGE AND/OR DEATH.

Effects of Overexposure:SKIN: SEVERE IRRITANT. SENSITIZATION OR ALLERGIC REACTION, SUCH AS RASHES OR HIVES. CAN BE ABSORBED THROUGH SKIN. CAN CAUSE DEFA

TTING AND DRYING OG SKIN. INHALATION: IRRITANT. DELAYED LUNG INJURY. RES PIRATORY SENSITIZATION AND ALLERGIC SUCH AS ASTHMA. CENTRAL NERVOUS SYSTEM DAMAGE. DO NOT USE IF YOU HAVE CHRONIC LUNG OR BREATHING PROBLEMS, OR EXPOSURE IF YOU HAVE REACTION TO ISOCYANATES. EYES: SEV ERE IRRITANT. CORNEAL INJURY. IRREVERSIBLE BURNS AND DAMAGE. DO NOT WEAR CONTACT LENSES WHEN USING THIS MATERIAL. INGESTION: CAN BE FATAL IF SWALLOWED. ASPIRATION INTO LUNGS CAN DAMAGE LUNGS AND CAU

SE CHEMICAL PNEUMONIA.

========== 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 IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. INGESTION: DRINK TO 1 TO 2 GLASSES OF WATER TO DILUTE. NEVER G

IVE ANYTHING BY MOUTH TO AN UN CONSCIOUS PERSON. DO NOT INDUCE VOMITING (UNLESS METHANOL; LISTED IN SECTION 2) CONSULT PHYSICIAN OR POISON CONTROL CENTRAL IMMEDIATELY. TREAT SYMPTOMATICALLY.

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

Flash Point Method:SCC
Flash Point:=37.8C, 100.F
Upper Limits:13.20
Extinguishing Media:FOAM, CARBON DIOXIDE, DRY CHEMICAL
Fire Fighting Procedures:WEAR FULL PROTECTIVE EQUIPMENT, SELF CONTAINED BREATHING APPARATUS. WATER

MAY BE USED TO COOL 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 BUILD-UP OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. FLOATING FIRE HAZARD, ISOLATE FROM ELECTRICAL EQUIPMENT, SPARKS, OPEN FLAME; VAPORS MAY SPREAD LONG DISTANCES. WATER MAY CAUSE FROTHING DUE TO GENERATION OF CARBON DIOXIDE.

========== Accidental Release M
easures ==========

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. DO NOT PLACE UNREACTED, MIXED MATERIAL CONTAING ALUMINUM OR ZINC IN A SEALED SCRAP RECEPTABLE CONTAINING WATER OR OTHER MIXED MATERIALS AS GSSING MAY CAUSE CONTAINER TO BURST.

========== Exposure Contro
ls/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 CONDITION.
Ventilation:IMPLEMENT ADMINISTRATIVE AND ENGINEERING CONTROLS TO REDUCE EXPOSURE. PROVIDE SUFFICIENT VENTILATION IN VOLUME AND PATTERN
Eye Protection:WEAR SOLVENT RESISTANT GLASSES WITH SPLASHGUARDS OR FACE
SHIELD.
Other Protective Equipment:DEPENDENT UPON APPLICATION METHOD, WEAR RESISTANT COVERALLS, GLOVES AND SHOES COVERINGS TO PREVENT SKIN CONTACT. USE EXPLOSION AND SPARK-PROOF EQUIPMENT
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, SMOKING OR USING 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
B.P. Text:244-366F
Vapor Density:>AIR
VOC Pounds/Gallon:288
Evaporation Rate & Reference:LOW .10 HIGH 1.00
Appearance and Odor:LIQUID, SOLVENT ODOR
Percent Volatiles by Volume:35.0%

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDERS, ACIDS AND ALKALIES. WATER.
Stability Condition to Avoid:HEAT, OPEN FLAME, ARC OR SPARKS. WATER OR MOISTURE. AMINE
S UNDER UNCONTROLLED CONDITIONS.
Hazardous Decomposition Products:CO, CO2, NOX, HYDROGEN CHLORIDE FUMES, IRON OXIDE FUMES. CHLORINES. ALDEHYDES, ALUMINUM OXIDE FUMES. ISOCYANATES. PHENOLS. SOX, TOXIC GASES AND FUMES.

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

Waste Disposal Methods:PLACE IN SEPARATE, APPROPRIATE, CLOSED CONTAINER IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. THIS MATERIAL HAS NOT BEEN TESTED BY TOXICITY CH
ARACTERISTIC LEACHING PROCEDUR E.

========== Other Information ==========

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice t
o verify and
assume responsibility for the suitability of this information to their particular situation.