
236B1642 BAR-RUST 236 BUFF BASE, DV236B10220

MSDS Number

CJXHN

National Stock Number

8010-00N091847

Product Name

236B1642 BAR-RUST 236 BUFF BASE, DV236B10220

Manufacturer

AMERON INTERNATIONAL PROTECTIVE COATINGS GROUP

Product Identification

Product ID:236B1642 BAR-RUST 236 BUFF BASE, DV236B10220

MSDS Date:04/06/1999

FSC:8010

NIIN:00N091847

Status Code:A

MSDS Number: CJXHN

Responsible Party

AMERON INTERNATIONAL PROTECTIVE COATINGS GROUP

201 NORTH BERRY ST

BREA , CA 92821

US

Emergency Phone: 714-529-1951

Info Phone: 714-529-1951

Cage: 55849

Contractor

AMERON INTERNATIONAL PROTECTIVE COATINGS GROUP

BREA, CA 92821

US

714-529-1951

Cage: 55849

Ingredients

EPOXY RESIN (ALSO CAS # OF INGREDIENT 2 AND TRACE

CAS: 25036-25-3

OXIRANE, (CHLOROMETHYL)-, POLYMER WITH

CAS: 67924-34-9

BENZENE % WT

CAS: 71-43-2

RTECS: CY1400000

OSHA PELsee 1910.1028

ACGIH TLV: 32 MG/M3;10 PPM

EPA Report Quantity: 10 LBS

DOT Report Quantity: 10 LBS

EPICHLOROHYDRIN; (EPCH) 1 PPM MAX

CAS: 106-89-8

RTECS: TX4900000

OSHA PEL19 MG/M3;5 PPM

ACGIH TLV: 7.6 MG/M3;2 PPM

EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

SILICA CRYSTALLINE-QUARTZ; (SILICA (QUARTZ)) (TRACE)

CAS: 14808-60-7

RTECS: VV7330000

OSHA PELsee Table Z-3

ACGIH TLV: 0.1 MG/M3

15 PPM

CAS: 7440-39-3

RTECS: CQ8370000

ACGIH TLV: 0.5 MG/M3

1 PPM

CAS: 7439-92-1

RTECS: OF7525000

ACGIH TLV: 0.15 MG/M3

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

0.5 PPM

CAS: 7440-43-9

RTECS: EU9800000

OSHA PELsee 1910.1027

EPA Report Quantity: 10 LBS

DOT Report Quantity: 10 LBS

ARSENIC; (AS)

CAS: 7440-38-2

RTECS: CG0525000

ACGIH TLV: 0.01 MG/M3

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

ANTIMONY; (SB)

CAS: 7440-36-0

RTECS: CC4025000

OSHA PEL0.5 MG/M3

ACGIH TLV: 0.5 MG/M3

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

CAS: 7440-22-4

RTECS: VW3500000

OSHA PEL0.01 MG/M3

ACGIH TLV: 0.1 MG/M3

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

SELENIUM; (SE)

CAS: 7782-49-2

RTECS: VS7700000

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

CAS: 7439-97-6

RTECS: OV4550000

OSHA PELsee Table Z-2

ACGIH TLV: 0.025 MG/M3

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

TALC; (MAGNESIUM SILICATE) (CONTAINING QUARTZ SILICA (SEE

CAS: 14807-96-6

RTECS: WW2710000

OSHA PELsee Table Z-3

ACGIH TLV: 2 MG/M3

MICA (CONTAINS >0.1% CRYSTALLINE SILICA - SEE INGREDIENT 5)

CAS: 12001-26-2

RTECS: VV8760000

ACGIH TLV: 3 MG/M3

HIGH FLASH AROMATIC NAPHTHA (TRACE CONTAMINANT BENZENE

CAS: 64742-95-6

RTECS: WF3400000

BISPHENOL A DIGLYCIDYL ETHER RESIN; (EPOXY RESIN) (TRACE

CAS: 25085-99-8

TITANIUM DIOXIDE (AS TI, TRACE CONTAMINANTS - INGREDIENTS

CAS: 13463-67-7

RTECS: XR2275000

OSHA PEL15 MG/M3

ACGIH TLV: 10 MG/M3

ALUMINUM HYDROXIDE

CAS: 21645-51-2

RTECS: BD0940000

SILICA, AMORPHOUS-FUME; (AMORPHOUS SILICA)

CAS: 69012-64-2

RTECS: VV7312000

ACGIH TLV: 2 MG/M3

1 MMHG @ 68F

CAS: 95-63-6

RTECS: DC3325000

CALCIUM CARBONATE

CAS: 471-34-1

RTECS: FF9335000

4.3 MMHG @ 68F

CAS: 71-36-3

RTECS: EO1400000

OSHA PEL300 MG/M3;100 PPM

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:EXPOSURE EFFECTS: VAP/SPRAY MIST OR SPATTERED MATL CAN BE HARMFUL. IRRITATING TO EYES, SKIN & IF INHALED; TO NOSE & THROAT. EXCESSIVE OR PRLNGD INHAL CAN CAUSE HEADACHE, NAUSEA OR DIZZINESS. RPTD & PR LNGD OCCUPATIONAL OVEREXPOSURE TO SOLVENTS IS ASSOCIATED W/PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE. INTENTIONAL ABUSE, MISUSE OR OTHER MASSIVE EXPOSURE TO SOLVENTS MAY CAUSE MULTIPLE ORGAN DAMAGE &/OR DEATH.

OVEREXPOSURE (PRLNGD/RPTD USE): CAN AGGRAVATE OR ACCENTUATE ANY OF THESE EFFECTS. SKIN: IRRITANT. SENSITIZATION OR ALLERGIC REACTION, SUCH AS RASH OR HIVES. CAN BE ABSORBED THRU SKIN. CAN (EFT S OF OVEREXP)

Explanation of Carcinogenicity:SILICA, CRYSTALLINE-QUARTZ: IARC MONOGRAPHS, VOL 68, PG 41, 1997:GROUP 1. NTP 8TH ANNUAL REPORT ON CARCINOGENS, 1998:REASONABLY ANTICIPATED TO BE HUMAN CARCINOGEN. Effects of Overexposure:HLTH HAZS: CAUSE DEFATTING & DRYING OF SKIN. INHAL: IRRITANT. DELAYED LUNG INJURY. CENTRAL NERVOUS SYSTEM DAMAGE. RPTD EXPOSURE TO SILICA DUST CAN CAUSE SILICOSIS. CRYSTALLINE SILICA MAY CAUSE CANCER. RISK OF CANCER DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM SANDING SURFACES OR SPRAY MIST. SMOKING AGGRAVATES PROBLEMS. HIGH VAPOR CONCENTRATIONS MAY CAUSE KIDNEY &/OR LIVER DAMAGE. EYES: SEVERE IRRITANT. INGESTION: HARMFUL IF SWALLOWED. ASPIRATION INTO LUNGS CAN DAMAGE LUNGS & CAUSE CHEMICAL PNEUMONIA. TARGET ORGANS: KIDNEYS. LIVER. BLOOD. LUNGS, SKIN. EYES. STOMACH. CENTRAL NERVOUS S YSTEM. (ECOLOGICAL INFO)

Medical Cond Aggravated by Exposure:KIDNEYS. LIVER. SKIN. EYES. RESPIRATORY. ALLERGIES. LUNGS.

First Aid

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 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

Flash Point Method:SCC

Flash Point:=-42.2C, 108.F

Lower Limits:1.0%

Upper Limits:11.2%

Extinguishing Media:FOAM, CARBON DIOXIDE, DRY CHEMIAL.

Fire Fighting Procedures:USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT . WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. FLAMMABILITY - OSHA: C OMBUSTIBLE - CLASS II; DOT: FLAMMABLE.

LOWEST FLASHING SOLVENT: 71-36-3 (BUTYL ALCOHOL).

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 AND OPEN FLAME. VAPORS MAY SPREAD L ONG DISTANCES, CAUSE FLASH FIRE OR IGNITE EXPLOSIVELY.

Accidental Release

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.

Handling

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

Respiratory Protection:WEAR NIOSH CERTIFIED RESP DESIGNED TO REMOVE A COMBINATION OF PARTICULATES (DUST OR SPRAY MIST) & VAPOR. WHEN

BRUSHING, ROLLING OR SPREADING; SELECT APPROP RESP PROT FOR CNDTNS.
FOR SPECIFIC CNDTNS, REFER TO CURRENT "NIOSH POCKET GUIDE TO
CHEMICAL HAZARDS." IN CONFINED OR RESTRICTED VENT AREAS USE NIOSH
APPRVD AIR-LINE RESPS OR HOODS. (SUPDAT)
Ventilation:IMPLEMENT ADMINISTRATIVE & ENGINEERING CONTROLS TO REDUCE
EXPOS. PROVIDE SUFFICIENT VENT IN VOL & PATTERN TO KEEP AIR
CONTAMINANT CONCS (OTHER INFO)
Protective Gloves:IMPERVIOUS GLOVES .
Eye Protection:ANSI APPROVED CHEMICAL WORKERS GOGGLES .
Other Protective Equipment:EYE WASH & DELUGE SHWR MTG ANSI DESIGN CRIT
. DEP UPON APPLICATN METH, WEAR RESIST COVERALLS, GLOVES & SHOE
COVERINGS TO PVNT SKIN CNTCT. CONSULT 29 CFR 1910.132,133,136,138;
(OTHER INFO)
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
RESP PROT: REFER TO 29 CFR , OSHA PARTS 1910.134 & 1915 FOR COATING
OPERATIONS; PART 1910.146 CONFINED SPACES; ANSI Z88.2, PRACTICES
FOR RESPIRATORY PROTECTION; 42 CFR PART 84 PARTICULATE RESPS.

Chemical Properties

Boiling Pt:>117.8C, 244.F
Vapor Pres:SEE INGREDIENTS
Vapor Density:HVR/AIR
Spec Gravity:1.6
VOC Pounds/Gallon:169
Evaporation Rate & Reference:SLOWER THAN BUTYL ACETATE
Solubility in Water:NO
Appearance and Odor:LIQUID; SOLVENT ODOR.
Percent Volatiles by Volume:26.04

Stability

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZERS, ACIDS AND ALKALIES.
Stability Condition to Avoid:HEAT, OPEN FLAME, ARC OR SPARKS. AMINES
UNDER UNCONTROLLED CONDITIONS. THIS PRODUCT IS STABLE UNDER NORMAL
STORAGE CONDITIONS.
Hazardous Decomposition Products:(BY FIRE, BURNING OR WELDING): CARBON
MONOXIDE, CARBON DIOXIDE, ALDEHYDES.

Disposal

Waste Disposal Methods:EPA WASTE NO: D001. PLACE IN SEPARATE,
APPROPRIATE, CLOSED CONTAINER IN ACCORDANCE WITH ALL APPLICABLE
LOCAL, STATE AND FEDERAL REGULATIONS. THIS MATERIAL HAS NOT BEEN
TESTED BY TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP).

Toxicology

Toxicological Information:LD50: (DERMAL, RABBIT) - EPOXY RESIN 20 G/KG;
HIGH FLASH NAPHTHA 3.100 G/KG; EPOXY RESIN 4 G/KG; TITANIUM DIOXIDE
10 G/KG; BUTYL ALCOHOL 4.2 G/KG. LC50: (INHALATION, RAT) - HIGH
FLASH NAPHTHA 3670 PPM ; TITANIUM DIOXIDE 6820 PPM; BUTYL ALCOHOL
8000 PPM. CRYSTALLINE SILICA (RESPIRABLE SIZE, 10 MICRONS OR LESS).
IARC MONOGRAPH ON THE EVALUATION OF CARCINOGENIC RISK OF CHEMICALS
TO HUMANS (VOL 42 1987) CONCLUDES THAT THERE IS SUFFICIENT EVIDENCE
OF CARCINOGENICITY TO EXPERIMENTAL ANIMALS AND LIMITED EVIDENCE OF
CARCINOGENICITY TO HUMANS - IARC CLASS 2A.

Other Information

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
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assume responsibility for the suitability of this information to their

particular situation.

Ecology

Ecological:NO INFORMATION. EFTS OF OVEREXP: EPICHLOROHYDRIN, BENZENE, LEAD AND MERCURY APPEAR ON THE NAVY LIST OF OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS. SEEK CONSULTATION FROM APPROP HEALTH PROFESSIONALS CONCERNING LATEST HAZARD LIST INFO & SAFE HNDLG & EXPOS INFO .

Transport

Transport Information:DOT PROPER SHIPPING NAME: PAINT. DOT HAZARD CLASS: 3. HAZARD SUBCLASS: NA. DOT UN/NA NUMBER: 1263. IMO: NA. PACKING GROUP: III.

Regulatory

SARA Title III Information:1,2,4-TRIMETHYL BENZENE AND BUTYL ALCOHOL ARE SUBJECT TO REPORTING REQUIREMENTS OF SARA (40 CFR 355 AND 372). Federal Regulatory Information:OSHA: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). ALL INGREDIENTS ARE ON TSCA INVENTORY OR ARE EXEMPT. HIGH FLASH NAPHTHA AND 1,2,4-TRIMETHYL BENZENE AND BUTYL ALCOHOL ARE SUBJECT TO REQUIREMENTS OF CERCLA (40 CFR 302). INTERNATIONAL REGULATIONS AS FOLLOWS: CANADIAN WHMIS: THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR USE OF THE 16 HEADINGS. CANADIAN WHMIS CLASS: NO INFORMATION AVAILABLE. State Regulatory Information:NEW JERSEY RIGHT-TO-KNOW: NO NON-HAZARDOUS MATERIALS ARE AMONG THE TOP FIVE INGREDIENTS. PENNSYLVANIA RIGHT-TO-KNOW: NO NON-HAZARDOUS INGREDIENTS ARE PRESENT AT GREATER THAN 3%. CALIFORNIA TITLE 26:22 -1200 (PROP 65) - WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. CALIFORNIA TITLE 26:22-1200 (PROP 65) - WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.