



AMERON  
Coatings

**M. S. D. S.**

Material Safety Data Sheet

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME : AMERCOAT 90HS WHITE RESIN  
 IDENTIFICATION NUMBER: 90HSB30000  
 PRODUCT CLASS : HIGH PERFORMANCE EPOXY  
 HEALTH : WARNING HMIS/NFPA : H2F3R0

Ameron International  
 Protective Coatings Group  
 201 North Berry St.  
 Brea, CA 92821

EMERGENCY: 800-424-9300 (ChemTrec)  
 24 Hours Emergency Hotline

INFORMATION: William B. Dances, PHONE: 714-529-1951 PREPARE DATE: 03/05/02  
 PREVIOUS REVISION DATE: 01/18/02

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	MAGNESIUM SILICATE (Respirable quartz** <0.1%)	14807-96-6	35.0 %
02	EPOXY RESIN (Also CAS# 25085-99-8. Diglycidyl ether<2ppm, phenyl glycidyl ether**<6ppm)	25068-38-6	25.0 %
03	+ TITANIUM DIOXIDE (As TiO2 trace contaminants 2.5% aluminum hydroxide 3% amorphous silica)	13463-67-7	15.0 %
04	HIGH FLASH NAPHTHA (Mfg TLV 50ppm; trace contaminant benzene***<1ppm SARA, toluene#<0.1%SARA)	64742-95-6	9.80 %
05	MAGNESIUM SILICATE (Respirable quartz** <0.1%)	14807-96-6	10.0 %
06	1,2,4-Trimethyl benzene	95-63-6	7.20 %

(SARA)

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

WT/WT %

ITEM	CHEMICAL NAME	CAS NUMBER	LESS THAN
07	PROPYLENE GLYCOL METHYL ETHER (STEL 150ppm, 540mg/m3.)	107-98-2	7.10 %

ITEM	EXPOSURE LIMITS				VP mmHg @68F	TOXICITY	
	----- ACGIH -----		----- OSHA -----			LD50 g/kg	LC50 ppm
	TLV-TWA ppm	TLV-TWA Mg/M3	PEL-TWA ppm	PEL-TWA Mg/M3			
01	dna	2.00	dna	2.000	N.A.	dna	dna
02	dna	dna	dna	dna	N.A.	20.000	dna
03	dna	5.0	dna	5.0	N.A.	10.000	6820.000
04	dna	dna	100	dna	2.7	3.100	3670.000
05	dna	2.0	dna	2.0	N.A.	dna	dna
06	25.0000	125.00	25.000	125.000	1.0	dna	dna
07	100	369	100	360	8.0	13.000	3000.000

REGULATORY: \*\*CALIF.TITLE 26:22-12000 (PROP 65). WARNING: This product contains a chemical known to the State of California to cause cancer.  
#CALIF.TITLE 26:22-12000 (PROP 65). WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. All ingredients are on TSCA inventory or are exempt. Toxic chemicals marked (SARA, CERCLA, HAPs) are subject to reporting requirements of SARA (40CFR 355 and 372), CERCLA (40CFR 302), or HAPs (40CFR 63).

(S)=Skin; LD50=Dermal,rabbit; LC50=Inhalation,rat; dna=data not available; na=not applicable

### **SECTION 3 - HAZARDS IDENTIFICATION**

EXPOSURE EFFECTS: 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. Repeated and prolonged occupational overexposure to solvents is associated with permanent brain and nervous system damage. Intentional abuse, misuse or other massive exposure to solvents may cause multiple organ damage and/or death.

OVER-EXPOSURE (prolonged or repeated use): CAN AGGRAVATE OR ACCENTUATE ANY OF THESE EFFECTS.

SKIN: Irritant. Sensitization or allergic reaction, such as rash or hives. Can be absorbed through skin.

### **SECTION 3 - HAZARDS IDENTIFICATION**

INHALATION: Irritant. Lung injury. Central nervous system damage. High vapor concentrations may cause drowsiness.

EYES: Irritant.

INGESTION: Harmful if swallowed. Aspiration into lungs can damage lungs and cause chemical pneumonia.

TARGET ORGANS: + Pigment content is dependent on color. Kidneys. Liver. Lungs. Skin. Eyes. Stomach. Central nervous system.

MEDICAL CONDITIONS AGGRAVATED: Skin. Eyes. Respiratory. Allergies.

Lungs.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

#### **SECTION 4 - FIRST AID MEASURES**

FIRST AID PROCEDURES: 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 irritation 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 unconscious person. Do not induce vomiting. Consult physician or poison control center IMMEDIATELY. Treat symptomatically.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

FLASH POINT: 96 F (SETA) LOWER EXPLOSIVE LIMIT: 1.0 %  
UPPER EXPLOSIVE LIMIT: 13.7 %

FLAMMABILITY - OSHA: FLAMMABLE - CLASS IC  
DOT: FLAMMABLE

EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL

LOWEST FLASHING SOLVENT: 107-98-2

UNUSUAL FIRE AND EXPLOSION HAZARDS: 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 long distances, cause flash fire or ignite explosively.

FIREFIGHTING PROCEDURES: Wear full protective equipment, self-contained breathing apparatus. Water may be used to cool closed containers to prevent

#### **SECTION 5 - FIRE FIGHTING MEASURES**

pressure build-up or explosion when exposed to extreme heat.

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

SPILL, LEAKS: 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.

#### **SECTION 7 - HANDLING AND STORAGE**

HANDLING AND STORAGE: 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.

#### **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

VENTILATION: Implement administrative and engineering controls to reduce exposure. Provide 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.

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. For specific conditions, refer to current "NIOSH Pocket Guide to Chemical Hazards". In confined or restricted ventilation areas use air-line respirators or hoods. Refer to 29 CFR, OSHA parts 1910.134 and 1915 for coating operations; part 1910.146 Confined Spaces; ANSI Z88.2, Practices for Respiratory Protection; 42 CFR, part 84 Particulate Respirators.

PROTECTIVE CLOTHING AND EQUIPMENT: Dependent upon application method, wear resistant coveralls, gloves and shoe coverings to prevent skin contact. Wear solvent resistant glasses with splash guards or face shield to protect eyes from splash, spatter and/or spray mist. Consult 29 CFR 1910.132, 133, 136, 138; ANSI Z87.1, Z41. Use explosion and spark-proof equipment.

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,

#### **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

to prevent reuse.

#### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

BOILING RANGE	: 248 - 336 F	VAPOR DENSITY	: Is heavier than air
ODOR	: SOLVENT	WEIGHT PER GAL	: 12.7770
APPEARANCE	: LIQUID	EVAPORATION RATE:	Is slower than Butyl
SOLUBILITY IN H <sub>2</sub> O	: NO		Acetate
MIXED VOC, G/L	: 323	MIXED THINNED VOC, G/L	: 385
THINNER	: 65 @ 1.00 PINTS	PHOTOCHEMICALLY REACTIVE:	Yes
VOLATILE VOLUME %	: 44.10		

#### **SECTION 10 - STABILITY AND REACTIVITY**

CONDITIONS TO AVOID: Heat, open flame, arc or sparks.

INCOMPATIBILITY: Strong oxidizers, acids and alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS: (BY FIRE, BURNING OR WELDING); CO, CO<sub>2</sub>. Aldehydes. Phenols. Toxic gases or fumes.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

#### **SECTION 11 - TOXICOLOGICAL PROPERTIES**

TOXICOLOGICAL PROPERTIES: See Section 2.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

ECOLOGICAL INFORMATION: No Information.

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

EPA Waste No.: D001

DISPOSAL METHOD: 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).

**SECTION 14 - TRANSPORTATION INFORMATION**

DOT PROPER SHIPPING NAME: Paint

DOT HAZARD CLASS: 3

HAZARD SUBCLASS: NA

DOT UN/NA NUMBER: 1263

IMO: NA

PACKING GROUP : III

**SECTION 15 - REGULATORY INFORMATION**

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME ----- CAS NUMBER

No non-hazardous materials are among the top five ingredients.

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME ----- CAS NUMBER

No non-hazardous ingredients are present at greater than 3%.

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.

**SECTION 16 - OTHER INFORMATION**

NOTICE: Removal of old lead paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-424-LEAD.



AMERON  
Coatings

# M. S. D. S.

## Material Safety Data Sheet

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : AMERCOAT 90HS CURE  
 IDENTIFICATION NUMBER: 90HSC00000  
 PRODUCT CLASS : High Performance Epoxy  
 HEALTH : DANGER/CORROSIVE HMIS/NFPA : H3F3R0

Ameron International  
 Protective Coatings Group  
 201 North Berry St.  
 Brea, CA 92821

EMERGENCY: 800-424-9300 (ChemTrec)  
 24 Hours Emergency Hotline

INFORMATION: William B. Dances, PHONE: 714-529-1951 PREPARE DATE: 03/05/02  
 PREVIOUS REVISION DATE: 02/19/02

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	MODIFIED FATTY AMINE	85632-63-9	70.0 %
02	EPOXY RESIN (Also CAS# 25085-99-8. Diglycidyl ether<2ppm, phenyl glycidyl ether**<6ppm)	25068-38-6	25.0 %
03	XYLENE (STEL 150ppm; Ceiling 300ppm; trace contaminant benzene*** @<10ppm, toluene#<1%)  (HAPS, SARA, CERCLA)	1330-20-7	7.00 %
04	ETHYL BENZENE ACGIH: A3 IARC: 2B (STEL 125ppm)  (HAPS, SARA, CERCLA)	100-41-4	1.70 %

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

EXPOSURE LIMITS

ITEM	----- ACGIH -----		----- OSHA -----		VP mmHg @68F	TOXICITY	
	TLV-TWA ppm	TLV-TWA Mg/M3	PEL-TWA ppm	PEL-TWA Mg/M3		LD50 g/kg	LC50 ppm
01	dna	dna	dna	dna	N.A.	dna	dna
02	dna	dna	dna	dna	N.A.	20.000	dna
03	100	434	100	435	6.6	3.900	6700.000
04	100	434	100	435	7.1	dna	dna

REGULATORY: \*\*CALIF.TITLE 26:22-12000 (PROP 65). WARNING: This product contains a chemical known to the State of California to cause cancer.  
#CALIF.TITLE 26:22-12000 (PROP 65). WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. All ingredients are on TSCA inventory or are exempt. Toxic chemicals marked (SARA, CERCLA, HAPs) are subject to reporting requirements of SARA (40CFR 355 and 372), CERCLA (40CFR 302), or HAPs (40CFR 63).

(S)=Skin; LD50=Dermal.rabbit; LC50=Inhalation,rat; dna=data not available; na=not applicable

### SECTION 3 - HAZARDS IDENTIFICATION

EXPOSURE EFFECTS: 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. Repeated and prolonged occupational overexposure to solvents is associated with permanent brain and nervous system damage. Intentional abuse, misuse or other massive exposure to solvents may cause multiple organ damage and/or death.

OVER-EXPOSURE (prolonged or repeated use): CAN AGGRAVATE OR ACCENTUATE ANY OF THESE EFFECTS.

SKIN: Irritant. Severe burns. Sensitization or allergic reaction, such as rash or hives. Can be absorbed through skin. Can cause defatting and drying of skin.

INHALATION: Irritant. Lung injury. Central nervous system damage. Chemical pneumonia. Xylene or toluene may cause irregular heart beat.

EYES: Irritant. Corneal injury. Severe burns.

INGESTION: Can be fatal if swallowed. Aspiration into lungs can damage lungs and cause chemical pneumonia.

TARGET ORGANS: Kidneys. Liver. Lungs. Heart. Skin. Eyes. Stomach. Central nervous system. Fetal defects.

### SECTION 3 - HAZARDS IDENTIFICATION

MEDICAL CONDITIONS AGGRAVATED: Kidneys. Liver. Skin. Eyes. Respiratory. Allergies. Lungs.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

### SECTION 4 - FIRST AID MEASURES

FIRST AID PROCEDURES: 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 irritation persists. EYES: Flush immediately with plenty of water for at



PROTECTIVE CLOTHING AND EQUIPMENT: Dependent upon application method, wear resistant coveralls, gloves and shoe coverings to prevent skin contact. Wear solvent resistant glasses with splash guards or face shield to protect eyes from splash, spatter and/or spray mist. Consult 29 CFR 1910.132, 133, 136, 138; ANSI Z87.1, Z41. Use explosion and spark-proof equipment.

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, to prevent reuse.

#### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

BOILING RANGE	: 276 - 277 F	VAPOR DENSITY	: Is heavier than air
ODOR	: SOLVENT	WEIGHT PER GAL	: 7.6588
APPEARANCE	: LIQUID	EVAPORATION RATE:	Is slower than Butyl
SOLUBILITY IN H2O	: NO		Acetate

#### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

MIXED VOC, G/L	: 323	MIXED THINNED VOC, G/L	: 385
THINNER	: 65 @ 1.00 PINTS	PHOTOCHEMICALLY REACTIVE:	Yes
VOLATILE VOLUME %	: 9.24		

#### **SECTION 10 - STABILITY AND REACTIVITY**

CONDITIONS TO AVOID: Heat, open flame, arc or sparks.

INCOMPATIBILITY: Strong oxidizers, acids and alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS: (BY FIRE, BURNING OR WELDING); CO, CO2. NOx. Aldehydes. Phenols.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

#### **SECTION 11 - TOXICOLOGICAL PROPERTIES**

TOXICOLOGICAL PROPERTIES: See Section 2.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

ECOLOGICAL INFORMATION: No Information.

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

EPA Waste No.: D001

DISPOSAL METHOD: 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).

#### **SECTION 14 - TRANSPORTATION INFORMATION**

DOT PROPER SHIPPING NAME: CORROSIVE LIQUID, FLAMMABLE N.O.S.

DOT HAZARD CLASS: 8 HAZARD SUBCLASS: 3

DOT UN/NA NUMBER: 2920 IMO: NA PACKING GROUP : II

**SECTION 14 - TRANSPORTATION INFORMATION**

**SECTION 15 - REGULATORY INFORMATION**

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

-----	CHEMICAL NAME	-----	CAS NUMBER
No non-hazardous materials are among the top five ingredients.			

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

-----	CHEMICAL NAME	-----	CAS NUMBER
No non-hazardous ingredients are present at greater than 3%.			

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.

**SECTION 16 - OTHER INFORMATION**

NOTICE: Removal of old lead paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-424-LEAD.