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M A T E R I A L   S A F E T Y   D A T A   S H E E T  
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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME : AMERLOCK 400 CURE  
IDENTIFICATION NUMBER: 400C00000  
PRODUCT CLASS : HIGH-SOLIDS EPOXY  
HEALTH : DANGER 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: H. Kline, PHONE: 714-529-1951 PREPARE DATE: 05/01/98  
PREVIOUS REVISION DATE: 05/01/98

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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	BARIUM SULFATE (Contains amorphous silica 0.4%)	7727-43-7	25.0 %
02	MAGNESIUM SILICATE (Respirable quartz** <0.1%)	14807-96-6	25.0 %
03	XYLENE (STEL 150ppm; Ceiling 300ppm; trace contaminant benzene** @ 5ppm) (HAPS, SARA, CERCLA)	1330-20-7	12.50 %
04	POLYAMIDE RESIN (Also CAS# 68910-91-9. TETA @ 6%)	68410-23-1	15.0 %
05	NONYL PHENOL	84852-15-3	10.0 %
06	POLYAMINE	9046-10-0	10.0 %
07	DIISODECYL PHTHALATE (Mfg TLV 5mg/m3)	26761-40-0	5.0 %
08	FURFURYL ALCOHOL (STEL 15ppm, 60mg/m3.)	98-00-0	5.0 %
09	ETHYL BENZENE (STEL 125ppm, 543mg/m3.) (HAPS, SARA, CERCLA)	100-41-4	3.10 %
10	CLAY (CRYSTALLINE SILICA** @ <1%)	68911-87-5	5.0 %
11	AMINE CARBOXYLATE (Trace contaminants @ ppm arsenic** 0.14; lead**#, cadmium**, dna		5.0 %

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## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM ----- CHEMICAL NAME ----- CAS NUMBER ----- WT/WT %  
LESS THAN

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chromium VI\*\* 0.03; nickel\*\* 34.1; mercury# 0.001)

ITEM	EXPOSURE LIMITS				VP mmHg @68F	TOXICITY	
	ACGIH TLV-TWA ppm	ACGIH TLV-TWA Mg/M3	OSHA PEL-TWA ppm	OSHA PEL-TWA Mg/M3		LD50 g/kg	LC50 ppm
01	dna	5.0	dna	5.0	N.A.	dna	dna
02	dna	2.00	dna	2.000	N.A.	dna	dna
03	100.0000	434.00	100.000	435.000	6.6	3.900	6700.000
04	dna	dna	dna	dna	N.A.	8.000	dna
05	dna	dna	dna	dna	N.A.	2.100	dna
06	dna	dna	dna	dna	N.A.	2.980	dna
07	dna	dna	dna	dna	N.A.	dna	dna
08	10.0000	40.00	10.000	40.000 (S)	N.A.	dna	233.000
09	100.0000	434.00	100.000	435.000	7.1	dna	dna
10	dna	10.00	dna	10.000	N.A.	dna	dna
11	dna	dna	dna	dna	N.A.	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. (SARA, CERCLA, HAPs) toxic chemical subject to reporting requirements of SARA and CERCLA (40CFR 302, 355, 372) 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: Severe 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. Respiratory sensitization and

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## SECTION 3 - HAZARDS IDENTIFICATION

allergic reaction such as asthma. Central nervous system damage. Smoking aggravates problems. Chemical pneumonia. Xylene or toluene may cause irregular heart beat.

EYES: Severe 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 cause chemical pneumonia.

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

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

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

## 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 (unless METHANOL; listed in Section 2). Consult physician or poison control center IMMEDIATELY. Treat symptomatically.

## SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 85 F (SETA)

LOWER EXPLOSIVE LIMIT: 1.0 %  
UPPER EXPLOSIVE LIMIT: 7.0 %

FLAMMABILITY - OSHA: FLAMMABLE - CLASS IC  
DOT: FLAMMABLE

EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL

LOWEST FLASHING SOLVENT: 100-41-4

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

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## 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.

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 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 212 - 277 F	VAPOR DENSITY	: Is heavier than air
ODOR	: SOLVENT	WEIGHT PER GAL	: 11.6995
APPEARANCE	: LIQUID	EVAPORATION RATE:	Is slower than Butyl Acetate
SOLUBILITY IN H2O	: NO		

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

EPA MIXED VOC, G/L: 167.0000 EPA MIXED THIN VOC, G/L : 208.0000
THINNER : 65 @ 0.50 PINTS PHOTOCHEMICALLY REACTIVE: Yes
VOLATILE VOLUME % : 27.46

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. Toxic gases or fumes. Methyl mercaptan. ammonia

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,D018

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
(TLCP).

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

DATE PRINTED: 05/05/98