

M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : AMERSHIELD DEEP YELLOW RESIN
 IDENTIFICATION NUMBER: AMSHB80047
 PRODUCT CLASS : ALIPHATIC POLYURETHANE
 HEALTH : WARNING

HMIS/NFPA : H2F2R0

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: 09/15/98

PREVIOUS REVISION DATE: 06/30/98

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	ACRYLIC RESIN POLYMER (ETHYLHEXYL ACRYLATE @ <0.3%, MFG TLV 5PPM)	dna	35.0 %
02	BUTYL ACETATE (STEL 200ppm, 950mg/m3.) (CERCLA)	123-86-4	16.20 %
03	+ TITANIUM DIOXIDE (As TI, trace impurities, <6% aluminum hydroxide, <10% amorphous silica)	13463-67-7	15.0 %
04	POLYESTER RESIN	dna	10.0 %
05	OXOHEXYL ACETATE (Mfg TLV 50ppm)	88230-35-7	7.10 %
06	CALCIUM SILICATE	13983-17-0	10.0 %
07	SILICA (QUARTZ**)* Fed OSHA: N NTP: Y ACGIH: N IARC: 2A * Cancer or cancer suspect agent. (Trace contaminants ppm: Ba 15; Pb**#1; Cd**0.5; As**, Sb**, Ag<0.2; Se, Hg# <0.1)	14808-60-7	10.0 %
08	+ HANSA YELLOW (Contains barium sulfate)	6358-31-2	5.0 %
09	ETHYL ETHOXYPROPIONATE (Mfg 50 ppm TWA, 100 ppm STEL; <0.01% butylated hydroxytoluene)	763-69-9	1.60 %
10	+ ORGANIC YELLOW PIGMENT	5567-15-7	5.0 %

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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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	dna	dna	dna	N.A.	dna	dna
02	150.0000	713.00	150.000	710.000	10.0	10.000	1800.000
03	dna	5.00	dna	5.000	N.A.	10.000	6820.000
04	dna	dna	dna	dna	N.A.	dna	dna
05	dna	dna	dna	dna	1.4	dna	dna
06	dna	5.00	dna	5.000	N.A.	dna	dna
07	dna	.10	dna	.100	N.A.	dna	dna
08	dna	5.00	dna	5.000	N.A.	dna	dna
09	dna	dna	dna	dna	1.5	20.000	1000.000
10	dna	5.00	dna	5.000	N.A.	dna	dna

REGULATORY: +Pigment content is dependent on color. **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. Can cause defatting and drying of skin.

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SECTION 3 - HAZARDS IDENTIFICATION

INHALATION: Irritant. Lung injury. Central nervous system damage. Repeated 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. Chemical pneumonia. High

vapor concentrations may cause drowsiness.

EYES: Severe irritant. DO NOT wear contact lenses when using this material.

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

TARGET ORGANS: Kidneys. Liver. Lungs. Skin. Eyes. Stomach. Spleen. Central nervous system.

MEDICAL CONDITIONS AGGRAVATED: Skin. Respiratory.

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

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 110 F (SETA) LOWER EXPLOSIVE LIMIT: 1.0 %
UPPER EXPLOSIVE LIMIT: 8.0 %

FLAMMABILITY - OSHA: COMBUSTIBLE - CLASS II
DOT: FLAMMABLE

EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL

LOWEST FLASHING SOLVENT: 123-86-4

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.

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SECTION 5 - FIRE FIGHTING MEASURES

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.

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,

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

smoking or using toilet. Launder contaminated clothing before use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 252 - 329 F	VAPOR DENSITY	: Is heavier than air
ODOR	: SOLVENT	WEIGHT PER GAL	: 10.3041
APPEARANCE	: LIQUID	EVAPORATION RATE:	Is faster than Butyl Acetate
SOLUBILITY IN H2O	: NO	MIXED THINNED VOC, G/L	: 323
MIXED VOC, G/L	: 264	PHOTOCHEMICALLY REACTIVE:	No
THINNER	: 65 @ 1.00PINTS		
VOLATILE VOLUME %	: 36.60		

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. 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. 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.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

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SECTION 13 - DISPOSAL CONSIDERATIONS

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.

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| SECTION 16 - OTHER INFORMATION |
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