

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: POLYCOR

DESCRIPTION: SPIN CASTING RESIN

PRODUCT CODE IDENTITY: 940C408

NPCA HMIS RATING: H 2* F 3 R 2

REVISION: 22

LAST REVISED: 01/15/1999

DATE OF ISSUE: 01/14/2002

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.

ADDRESS: 820 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116

PREPARED BY:
HAZARD COMMUNICATION DEPT.

CUSTOMER: ALTEC INDUSTRIES INC
2106 S RIVERSIDE ROAD

INFORMATION TELEPHONE:

ST JOSEPH MO 64503

COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

ATTENTION: SANDY TRAVIS

TRANSPORTATION EMERGENCY TELEPHONE (CHEMTREC): 1-800-424-9300

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

The percent by weight composition data given in Sections II and X are NOT SPECIFICATIONS, but are based on target formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

SECTION II INGREDIENTS

This product contains no reported carcinogens or suspected carcinogens.

This product contains no reportable hazardous ingredients. This Material Safety Data Sheet contains information on good industrial practice for safe handling of all industrial chemicals.

SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- -N/A F

Vapor Pressure: See Section II

Theoretical Weight per Gallon, Calculated: .0000 LB/GL

Theoretical Specific Gravity, Calculated: -N/A

Theoretical VOC, Calculated: .000 LB/GL

--If applicable, see Section X for further VOC information--

Physical State: LIQUID

Appearance: CLEAR MEDIUM GREEN

Odor: MODERATE AROMATIC

Odor Threshold: -N/A

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pH: -N/A
 Freezing Point: -N/A
 Water Solubility: -N/A
 Coefficient of Water/Oil Distribution: -N/A
 Mechanical Impact Explosion: -N/A
 Static Electricity Explosion: -N/A

 SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 88.0 degrees F
 For Flash Points 73 to 100 deg. F.
 OSHA Flammability Classification: Class IC
 DOT Flammability Classification: Flammable Liquid
 Lower Flammable Limit in Air: Lower- -N/A % by volume
 DOT Shipping Name:
 Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III
 EXTINGUISHING MEDIA:
 Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

 SECTION V HEALTH HAZARD DATA

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational over-

the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

SECTION X Sara Title III Information

SARA 313 INFORMATION:

This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

DISCLAIMER AND LIMITATION OF LIABILITY

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change

exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

CALIFORNIA PROPOSITION 65 INFORMATION:

This material contains no intentionally-added ingredients, covered by the California "Safe Drinking Water and Toxic Enforcement Act of 1986" (Proposition 65), unless specifically stated under OTHER HEALTH HAZARDS, by individual chemical.

OTHER HEALTH HAZARDS:

SECTION VI REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATABILITY (MATERIALS TO AVOID):

Oxidizers, peroxides, strong acids, aluminum chloride and vinyl polymers

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in

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at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

Date Revised: 05-31-2001

SECTION I - PRODUCT IDENTIFICATION

Manufacturer : American Colors Inc.
1110, Edgewater Avenue,
P.O. Box 397
SANDUSKY 44871-0397
OH
Product Class : Reactive White Polyester Disp.
Trade Name : Liquid Plastic Colorant
Product Code : PC-1060000000
CAS No : Mixture
DOT Hazard Class : 3
Proper Shipping Name: RESIN SOLUTION, flammable

Information Phone : (419) 621-4000
Emergency Phone : (800) 424-9300
CHEMTREK Phone : (800) 424-9300

Hazard Ratings: Health: 2
none → extreme Fire : 3
0 → 4 React : 2

UN Number : UN 1866

SECTION II - HAZARDOUS INGREDIENTS

Ingredient	CAS No	Weight %	Exposure Limits		Vapor Pressure mm HG
			ACGIH TLV	OSHA PEL	
*** Styrene/ Styrene Monomer	000100-42-5	6 - 12	50.00 Parts per million (PPM)	100.00 Parts per million (PPM)	4.5
		STEL : 100.00	Parts per million (PPM)	100.00 Parts per million (PPM)	@ 68.00 F
*** Benzene	Not Available	6 - 12	Not established	Not established	NAV/NAP
		STEL :	Not established	Not established	
*** Styrene/ Styrene Monomer	000100-42-5	2 - 8	50.00 Parts per million (PPM)	100.00 Parts per million (PPM)	4.5
		STEL : 100.00	Parts per million (PPM)	100.00 Parts per million (PPM)	@ 68.00 F
*** Titanium Dioxide	013463-67-7	51 - 79	10.00 mg/M3	10.00 mg/M3	NAV/NAP
		STEL :	Not established	Not established	
*** Indicates that, these Ingredients are listed in the T.S.C.A Inventory					

SECTION III - PHYSICAL DATA

Boiling Range : 293.00 - 293.00 F
Evaporation Rate: Faster than n-Butyl Acetate
Volatile Vol % : 66.1
Volatile Wgt % : 15.3
Appearance : White Liquid
Vapor Density : Heavier than Air
Liquid Density: Heavier than Water
Weight/Gallon : 17.3
Spec. Gravity : 2.1

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: 1C Flash Point: 87.80 F LEL: 0.00% UEL: 0.00%

-EXTINGUISHING MEDIA:

Foam, Carbon Dioxide, Dry Chemical, Water Fog

-SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. Water spray may be ineffective. If water is used, fog nozzles are preferable.