

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: POLYCOR  
DESCRIPTION: HP30 ARCTIC WHITE  
PRODUCT CODE IDENTITY: 992WK266  
NPCA HMIS RATING: H 2\* F 3 R 2  
REVISION: 05  
LAST REVISED : 09/20/2004  
DATE OF ISSUE: 11/08/2004  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
PREPARED BY: HAZARD COMMUNICATION DEPT.  
CUSTOMER: INFORMATION TELEPHONE:  
COMPOSITES: 1-800-821-3590  
POLYMERS: 1-800-488-5541

ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)  
703-527-3887 (INTERNATIONAL)

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

1  
CAS# 000136-52-7  
COBALT 2-ETHYLHEXANOATE, 17% COBALT  
PCT BY WT: .1260  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME  
OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME

2  
CAS# 000100-42-5  
STYRENE MONOMER  
PCT BY WT: 29.9030 VAPOR PRESSURE: 4.500 MMHG @ 68F  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)  
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)  
OSHA PEL/TWA: 100 PPM (8 HR TWA)  
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)  
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)  
LD50, Oral: 4.37 G/KG (RAT)  
LD50, Dermal: >5 G/KG (RABBIT)  
OTHER: LCLo: 5000 PPM/8H (RAT)  
OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)  
OTHER LIMITS:  
IARC - Group 2B See Section V

3  
CAS# 013463-67-7  
TITANIUM DIOXIDE  
PCT BY WT: 12.1990  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)  
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)



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LD50, Oral: >7500 MG/KG (RAT)  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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4  
CAS# 014807-96-6  
TALC (HYDROUS MAGNESIUM SILICATE)  
PCT BY WT: 10 - 20  
EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST  
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST  
LD50, Oral: NOT AVAILABLE  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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5  
UNSATURATED POLYESTER RESIN  
ON TSCA INVENTORY/ON CANADIAN DSL CAS# PROPRIETARY  
PCT BY WT: 20 - 30  
EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED  
OSHA PEL/TWA: NONE ESTABLISHED

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate  
subsection above under OTHER LIMITS.  
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This substance is classified as a hazardous air pollutant.  
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SECTION III PHYSICAL DATA

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Boiling Range: High- -N/A F Low- 293.0 F  
Vapor Pressure: See Section II  
Theoretical Weight per Gallon, Calculated: 11.0950 LB/GL  
Theoretical Specific Gravity, Calculated: 1.333  
Theoretical VOC, Calculated: 3.375 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: WHITE  
Odor: MODERATE AROMATIC  
Odor Threshold: -N/A  
pH: -N/A  
Freezing Point: -N/A  
Water Solubility: INSOLUBLE  
Coefficient of Water/Oil Distribution: -N/A  
Mechanical Impact Explosion: NO KNOWN HAZARD  
Static Electricity Explosion: AVOID STATIC CHARGE  
% HAP BY WEIGHT 30.035  
% MONOMER BY WEIGHT 29.895

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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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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- 1.1 % 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

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SECTION V HEALTH HAZARD DATA  
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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-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.

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CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

DIMETHYLANILINE

Although Dimethylaniline is not listed as a carcinogen by OSHA, NTP, IARC or ACGIH, it contains trace amounts of aniline which is listed by the State of California as a substance known to cause cancer. A report of a two year study of Dimethylaniline was published by NTP (TR 360, March 1989). The study demonstrated some evidence of carcinogenic activity of Dimethylaniline in male rats, equivocal evidence in female mice.

TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

ETHYLBENZENE

This product contains ethylbenzene. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as Group 2B, possibly carcinogenic to humans. This classification is based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in humans.

CARBON BLACK

The IARC evaluation in Monograph 65 concluded that "there is sufficient evidence in experimental animals for the carcinogenicity of Carbon Black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans (Group 2B)". Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure.

Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1% be considered suspect carcinogens.

DIETHYLENE GLYCOL

Excessive exposure to diethylene glycol may cause severe kidney, liver, gastrointestinal and central nervous system effects.

METHANOL

If taken internally, Methyl Alcohol may cause methanol poisoning.

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Symptoms include severe headache, vomiting, unconsciousness and blurring or loss of vision. Methyl Alcohol exposure can cause damage to liver, heart and kidneys.

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SECTION VI REACTIVITY DATA  
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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.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, peroxides, strong acids, aluminum chloride and vinyl polymers or any source of free radicals.

HAZARDOUS DECOMPOSITION PRODUCTS:

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

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SECTION VII SPILL OR LEAK PROCEDURES  
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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.

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SECTION VIII SPECIAL PROTECTION INFORMATION  
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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 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

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contaminated clothing. Wash contaminated clothing, including shoes,  
before reuse.

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SECTION IX SPECIAL PRECAUTIONS  
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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 con-  
tainers. 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 com-  
ponents 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

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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 atmo-  
sphere. 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.

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SECTION X Sara Title III Information  
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SARA 313 INFORMATION:

This product contains the following 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:

COBALT 2-ETHYLHEXANOATE, 17% COBALT  
CAS# 000136-52-7 PCT BY WT: .1260

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STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 29.9030  
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DISCLAIMER AND LIMITATION OF LIABILITY  
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The products sold hereunder shall meet Seller's applicable specifications  
at the time of shipment. Seller's specifications may be subject to change  
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

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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.