

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: STYPOL 040-8085  
DESCRIPTION: UNSATURATED POLYESTER RESIN  
PRODUCT CODE IDENTITY: 0408085B1  
NPCA HMIS RATING: H 2\* F 3 R 1  
REVISION: 03  
LAST REVISED : 08/06/2003  
DATE OF ISSUE: 06/05/2006  
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.  
ADDRESS: 820 E. 14th AVENUE  
NORTH KANSAS CITY, MO 64116  
CUSTOMER:  
PREPARED BY:  
HAZARD COMMUNICATION DEPT.  
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, 12% COBALT  
PCT BY WT: .2380  
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: 35.0810 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  
UNSATURATED POLYESTER RESIN

ON TSCA AND DSL INVENTORIES  
PCT BY WT: 50 - 60

CAS# PROPRIETARY

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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: 9.1324 LB/GL  
Theoretical Specific Gravity, Calculated: 1.097  
Theoretical VOC, Calculated: 3.430 LB/GL  
--If applicable, see Section X for further VOC information--  
Physical State: LIQUID  
Appearance: CLEAR, AMBER  
Odor: STYRENE  
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 35.089  
% MONOMER BY WEIGHT 35.080

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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 less than 73 deg. F.  
OSHA Flammability Classification: Class IB  
DOT Flammability Classification: Flammable Liquid  
Lower Flammable Limit in Air: Lower- 1.1 % by volume  
For Flash Points 73 to 100 deg. F.  
OSHA Flammability Classification: Class IC  
DOT Flammability Classification: Flammable Liquid  
DOT Shipping Name:  
DOT Shipping Name:  
Flash Points less than 73 deg. F. = RESIN SOLUTION, 3, UN1866, PG II  
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:

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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: 149980/SUB 2 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. Aspiration into lungs can cause pneumonitis which can be fatal.

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:

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."



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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.

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SECTION VI REACTIVITY DATA  
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STABILITY: Stable HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID:

Elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, reducing agents, peroxides, strong acids, bases, UV light, or any source of free radicals and mild steel.

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 vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during use of this product until vapors are exhausted, unless air monitoring demonstrates vapor 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. Refer to OSHA Standard 1910.94.

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.

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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 containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

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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, 12% COBALT  
CAS# 000136-52-7 PCT BY WT: .2380

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STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: 35.0810  
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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 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.