

# HI-BOND

## MATERIAL SAFETY DATA SHEET

Date Revised: 01/22/09

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HI-BOND WHITE GEL COAT WITH WAX

MSDS Number: 701480

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Material Identity

Product Name: **HI-BOND White Gel Coat with Wax**

Product Numbers: 1480, 1490, 1500, 1510,

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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 regulator's concern. Actual batch concentrations will vary within limits consistent with separately established product specifications.

### SECTION II INGREDIENTS

CAS# 000136-52-7

COBALT 2-ETHYLHEXANOATE, 12% COBALT PCT BY WT:  
.1250

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

CAS# 000100-42-5

STYRENE MONOMER

PCT BY WT:

36.8750 VAPOR PRESSURE: 4.500 MMHG @ 68F EXPOSURE

LIMIT:

ACGIH TLV/TWA: ACGIH	20 PPM (85 MG/CU.M.)
TLV/STEL: OSHA	40 PPM (170 MG/CU.M.)
PEL/TWA: OSHA	100 PPM (8 HR TWA)
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

CAS# 013463-67-7

TITANIUM DIOXIDE PCT  
 BY WT: 10.2610  
 EXPOSURE LIMIT: ACGIH  
 TLV/TWA: OSHA  
 PEL/TWA: LD50, Oral:

LD50, Dermal:

LC50, Inhalation:

10 MG/CU.M. (TOTAL DUST) 15  
 MG/CU.M. (TOTAL DUST) >7500  
 MG/KG (RAT)

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CAS# 014807-96-6

TALC (HYDROUS MAGNESIUM PCT  
 BY WT: 10 - 20

EXPOSURE LIMIT:

ACGIH TLV/TWA:

OSHA PEL/TWA:

LD50, Oral:

LD50, Dermal:

LC50, Inhalation:

NOT AVAILABLE  
 NOT AVAILABLE

SILICATE)

2 MG/CU.M., RESPIRABLE DUST 2  
 MG/CU.M., RESPIRABLE DUST NOT  
 AVAILABLE NOT AVAILABLE NOT  
 AVAILABLE

CAS# 14808-60-7

Quartz (crystalline silica) PCT BY WT: 0.1 - 1

EXPOSURE LIMIT:

ACGIH TLV/TWA: 0.05 MG/CU.M., RESPIRABLE DUST OSHA PEL/TWA: 0.1 MG/CU.M.,  
RESPIRABLE DUST

LD50, Oral: 500 MG/KG  
LD50, Dermal: NOT AVAILABLE  
LC50, Inhalation: NOT AVAILABLE

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:		10.8246 LB/GL
Theoretical Specific Gravity, Calculated:		1.301
Theoretical VOC, Calculated:		4.013 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 36.879

% MONOMER BY WEIGHT 36.875

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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FLAMMABILITY CHARACTERISTICS:

Lowest Closed Cup Flashpoint: 82.0 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 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 overexposure 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:**

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 workersexposed 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. 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.

**METHANOL**

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

**COBALT COMPOUNDS**

Overexposure to cobalt compounds may cause respiratory sensitization and an allergic skin rash.

They are mildly irritating to the eyes and if swallowed, may cause vomiting and diarrhea and a sensation of hotness.

**ETHYLENE GLYCOL MONOBUTYL ETHER**

Exposure of experimental animals to ethylene glycol monobutyl ether has been found to produce a toxic effect on red blood cells, spleen, liver and kidney.

## **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, 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.

## **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.

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

## **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. 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**

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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: .1250

STYRENE MONOMER  
CAS# 000100-42-5 PCT BY WT: 36.8750

#### **DISCLAIMER AND LIMITATION OF LIABILITY**

**NOTICE:** The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.