

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME OR NUMBER: **HBC-3B-2 (COVERCOAT)**

MANUFACTURER: HITCO Carbon Composites, Inc.

ADDRESS: 1600 W. 135th Street, Gardena, CA 90249

GENERAL ASSISTANCE: (310) 527-0700

24-HOUR EMERGENCY ASSISTANCE: CHEMTREC Assist: (800) 424-9300

DATE OF PREPARATION OR LAST CHANGE: March 4, 2003

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL/ COMMON NAME</u>	<u>C.A.S. NUMBER</u>	<u>% BY WEIGHT</u>	<u>EXPOSURE GUIDELINES</u>
A proprietary resin solution containing metal borides and carbides	Mixture	60-70	PEL 10 mg/m ³ (Total dust); 5 mg/m ³ (Respiratory fraction) TLV 10 mg/m ³ (Nuisance dust)
Toluene	108-88-3	20-30	PEL 50 ppm; STEL 150 ppm Ceiling 500 ppm

SECTION 3 HEALTH HAZARD IDENTIFICATION

PRIMARY ROUTES OF ENTRY

EYE: Severely irritating. Direct contact may cause irritation, pain, tearing, and corneal damage.

SKIN: Moderate irritating. May cause skin irritation. Repeated or prolonged exposure may cause reddening, itching, inflammation, cracking, and possibly secondary infection.

INGESTION: Ingested product may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting, abdominal pain, and diarrhea. Aspiration into the lungs may cause pneumoconiosis.

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INHALATION: Inhalation may cause irritation of the respiratory tract. Exposure may cause central nervous system effects. Effects may include euphoria, dizziness, drowsiness, blurred vision, headache, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death. Product may also cause loss of appetite, nervousness, pallor (paleness of the skin), and liver, kidney, and central nervous system damage. Anemia and irregular heart rhythm may also occur.

CARCINOGEN LISTINGS: IRAC has determined that there is insufficient evidence for the carcinogenicity of toluene in experimental animals and humans (IRAC Class –3B)

SECTION 4 FIRST AID MEASURES

EMERGENCY/FIRST AID PROCEDURES

EYE: Flush eyes with large amounts of water for 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention if irritation persists.

SKIN: Quickly remove contaminated clothing. Thoroughly wash exposed area of skin with soap and water. Rinse with flooding amounts of water. For reddened or blistered skin seek medical attention.

INGESTION: Do not induce vomiting. Contact a poison control center. If victim is conscious, give 1 – 3 glasses water to dilute stomach contents. Get medical attention immediately.

INHALATION: In case of overexposure, immediately move person from contaminated area to fresh air at once and support breathing as needed. Get medical attention immediately

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use dry chemical, alcohol foam, all purpose Aqueous Film Forming Foam (AFFF), or carbon dioxide to extinguish fire. Water may be ineffective but should be used to cool fire exposed containers, structures, and to protect personnel. If leak or spill has not ignited, ventilate area and use water spray to disperse vapors and to protect personnel attempting to stop leak. Use water to dilute spills and to flush away from sources of ignition. Do not flush down public sewers or other drainage systems.

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SPECIAL FIRE FIGHTING INSTRUCTIONS:

Product is dangerous when exposed to heat or flame. Fire may produce poisonous or irritating gas, fumes, or vapors. Exposed firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus with full-face mask and full protective equipment.

FLASH POINT: 2.8°C (37°F)

FLAMMABILITY LIMITS: NA

LOWER EXPLOSIVE LIMIT: ND

UPPER EXPLOSIVE LIMIT: ND

AUTO IGNITION TEMPERATURE: NA

SECTION 6 ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS

Take immediate steps to stop and contain spill. Caution should be used regarding personnel safety and exposure to the spilled material. Small spills may be diluted with water and mopped up or absorbed with noncombustible absorbent material or other absorbent known to be compatible. For large spills, dike area far ahead of spill for later cleanup and disposal.

NOTIFICATION INFORMATION

This material contains one or more constituents regulated as hazardous substances under U.S. Federal Law. The reportable quantity (RQ) of this material is 3,333 pounds, calculated on the basis of the regulated constituent providing the lowest RQ according to the following formula:

Constituent RQ/% in Material

Any spill, release, or substantial threat of release, of this material to the air, water and/or land in an amount equal to or in excess of the RQ in any 24 hour period, must be reported immediately to the National Response Center (800-424-8802); in Washington, D.C. (202-426-2675), unless the release results in exposure to persons solely within the boundaries of the facility.

In addition, under the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355) any release of this material to the air, water and/or land in an amount equal to or in excess of the RQ must be reported to the State Emergency Response Commission(s) and Local Emergency Planning Committee(s) likely to be affected by the release, unless the release is federally permitted or the release results in exposure to persons solely within the boundaries of the facility. In the event there is no Local Emergency Planning Committee, notification shall alternatively be made to the relevant local emergency response personnel.

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SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE PROCEDURES

Use good personal hygiene. Do not eat, drink, apply cosmetics or smoke in areas of use or storage. Wash hands and face thoroughly after handling and before eating, drinking or smoking.

Store in original container at ambient or lower temperature. Empty containers may contain toxic, flammable, or corrosive residue or vapors. Do not reuse containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS/WORK PRACTICES

VENTILATION:

Control airborne concentrations below the exposure guidelines specified by the Occupational Safety and Health Administration (OSHA) or other local, state and federal regulations.

PERSONAL PROTECTIVE EQUIPMENT/PROTECTIVE MEASURES

RESPIRATORY PROTECTION:

Use in well ventilated areas. Respiratory protection is not normally necessary. If exposure limits may possibly exceed the PELs or TLVs or respiratory irritation is experienced, NIOSH approved respiratory protection should be worn. An industrial hygienist or other qualified professional should be consulted during the respirator selection process to assure that the respiratory protection used is appropriate under the conditions of use. A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING:

Avoid skin contact. Wear appropriate chemical protective gloves and protective clothing such as armcovers or aprons. Contaminated work clothes should not be brought home.

EYE PROTECTION:

Avoid eye contact with this material. Wear chemical goggles. Do not wear contact lenses when working with this substance. Do not touch the eyes with contaminated skin or materials. Provide an eye wash station in the work area.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Dark gray solution with an aromatic odor

SPECIFIC GRAVITY (water=1): ND

VAPOR PRESSURE: ND

VAPOR DENSITY (air=1): ND

VISCOSITY: ND

MELTING POINT: NA

BOILING POINT: ND

EVAPORATION RATE (water=1): ND

% VOLATILE BY VOLUME: ND

SOLUBILITY IN WATER: ND

pH: ND

SECTION 10 STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

INCOMPATIBILITY:

Avoid contact with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion products may include carbon monoxide, carbon dioxide, and reactive hydrocarbons.

HAZARDOUS POLYMERIZATION: See STABILITY

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SECTION 11 DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD

This substance, when discarded or disposed of, is a hazardous waste according to Federal regulations (40 CFR 261). It is listed as Hazardous Waste Code D001 due to its ignitability.

The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

SECTION 12 TRANSPORTATION INFORMATION

DOT INFORMATION

HAZARD CLASS: 3

PROPER SHIPPING NAME: Flammable Liquid N.O.S.

LABELS REQUIRED: Flammable Liquid

PLACARDS REQUIRED: Flammable Liquid

BILL OF LADING DESCRIPTION: Flammable Liquids, Paint, 3, UN1263, PG I

UN/NA CODE: UN 1263

Packaging Group: I

SECTION 13 REGULATORY INFORMATION

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL) Inventory.

The Canadian Workplace Hazardous Materials Information System (WHMIS) Flammable/Combustible, Acutely Toxic, and Other Toxic Effects category applies to this product.

SARA TITLE III INFORMATION

This product is classified as an Immediate Hazard, a Delayed Hazard, and as a Fire Hazard under the hazard categories of the Superfund Amendments and Reauthorization Act (SARA) Section 311/312 (40 CFR 370).

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This product contains toxic chemicals (in excess of the applicable de minimis concentrations) that are subject to the annual toxic chemical release reporting requirements of SARA Section 313 (40 CFR 372).

<u>Component</u>	<u>C.A.S. Number</u>	<u>Maximum %</u>
Toluene	108-88-3	30

This product contains toluene which is a regulated pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42 with reference to Appendix D Tables II-V).

Any unpermitted release of this material into the facility's process streams, storm water and/or process wastewater discharge is a violation of the Clean Water Act. Facilities must notify the appropriate agency prior to introducing this material into its discharges. Notification levels are described in 40 CFR 122.42(a)(1) and 122.42(a)(2).

CALIFORNIA PROPOSITION 65 INFORMATION

This product contains toluene, a listed chemical subject to the State of California Proposition 65, the Safe Drinking Water and Toxic Enforcement Act of 1986.

SECTION 14 OTHER APPLICABLE INFORMATION

N/A

REVISION DATE: March 4, 2003 REPLACES SHEET DATED: January 11, 1996
COMPLETED BY: CLAYTON GROUP SERVICES, INC.

NOTICE TO USERS: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Data Safety Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vender for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.