

## MATERIAL SAFETY DATA SHEET

### SECTION 1           CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME OR NUMBER: **HBC-3B-1 (PRECOAT)**

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>
Water	65997-17-3	50-60	None Established
Aluminum phosphate	7784-30-7	20-30	None Established
Ethyl alcohol	64-17-5	10-15	PEL 1,000 ppm TLV 1,000 ppm
Aluminum oxide	1344-28-1	0-5	PEL 10 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (Respiratory fraction) TLV 10 mg/m <sup>3</sup> (Nuisance dust)
Nitric Acid	7697-37-2	0-1	PEL 2 ppm; STEL 4 ppm TLV 2 ppm; STEL 4 ppm

### SECTION 3           HEALTH HAZARD IDENTIFICATION

#### PRIMARY ROUTES OF ENTRY

EYE: Moderately irritating. Direct contact may cause irritation, tearing, photophobia, corneal edema, and possibly corneal burns.

SKIN: Moderate to severely irritating. Absorption from skin contact may cause

INGESTION: Product ingested in sufficient quantities may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, abdominal pain, and diarrhea.

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**INHALATION:** Inhalation may cause irritation of the respiratory tract and mucous membranes. Other effects may include coughing, difficulty in breathing, and nausea.

**CARCINOGEN LISTINGS:** N/A

### **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.

#### **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.

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FLASH POINT: 29°C (85°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 9,897 gallons, 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. Contact with metal may liberate explosive hydrogen gas. 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: Pink liquid with a slight odor

SPECIFIC GRAVITY (water=1): 1.210

VAPOR PRESSURE: 10 – 20 mmHg

VAPOR DENSITY (air=1): > 1

VISCOSITY: ND

MELTING POINT: NA

BOILING POINT: 100°C (212°F)

EVAPORATION RATE (water=1): < 1

% VOLATILE BY VOLUME: 70 - 85

SOLUBILITY IN WATER: infinite

pH: 2 – 3

**SECTION 10            STABILITY AND REACTIVITY**

STABILITY:

Stable under normal conditions of use. Acid content can react with metals to form hydrogen gas.

INCOMPATIBILITY:

Acid can react with metals to form hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS:

Upon first heating to 500°C, water, carbon monoxide, carbon dioxide, nitrogen oxides, and a high molecular weight alcohol may be produced. Hydrogen gas may form as the result of acid action on metal.

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HAZARDOUS POLYMERIZATION: See STABILITY

### **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 Liquid, (Contains Ethyl Alcohol)  
N.O.S., 3 UN1170, PG I

UN/NA CODE: UN 1170

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.

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### 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).

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>
Nitric Acid	7697-37-2	1

This product contains inorganic compounds with aluminum and phosphorus which are regulated pollutants 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

May contain a chemical known to the state of California to cause cancer or birth defects or other reproductive harm. All phosphorus compounds may be expected to contain arsenic and possibly cadmium and/or lead in concentrations ranging from a few parts per million to a few parts per billion.

### **SECTION 14            OTHER APPLICABLE INFORMATION**

N/A

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

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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.