

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME OR NUMBER: **SEMICARB™**

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: August 1, 2002

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>
Carbon	7440-44-0	99-100	PEL 5 mg/m ³ (resp.), 15 mg/m ³ (total), as nuisance dust TLV 3 mg/m ³ (resp.), 10 mg/m ³ (total), as nuisance dust

SECTION 3 HEALTH HAZARD IDENTIFICATION

PRIMARY ROUTES OF ENTRY

EYE: The abrasive action of dust may damage the outer surface of the eye.

SKIN: The abrasive action of the dust may cause irritation.

INGESTION: Not a normal route of exposure. Accidental ingestion may cause gastrointestinal disturbances.

INHALATION: Machining, grinding, or sawing of the material may generate airborne dust. Prolonged or repeated exposure to respirable particles may cause respiratory tract irritation, coughing and pulmonary edema.

CARCINOGEN
LISTINGS: NA

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SECTION 4 FIRST AID MEASURES

EMERGENCY/FIRST AID PROCEDURES

- EYE:** In case of contact immediately wash eyes with large amounts of water for 15 minutes, holding the eyelids apart to ensure thorough flushing. If irritation persists, seek medical attention.
- SKIN:** Wash gently with soap and water to remove dust and fibers.
- INGESTION:** Drink extra water to assist natural elimination. Seek medical attention if gastrointestinal irritation persists or other symptoms such as nausea, vomiting, or abdominal pain occur.
- INHALATION:** Move to fresh air. Drink water to clear throat and blow nose to remove fibers. Get immediate medical attention if necessary.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing agent for type of surrounding fire.

SPECIAL FIRE FIGHTING INSTRUCTIONS: None

FLASH POINT: NA

FLAMMABILITY LIMITS: NA

LOWER EXPLOSIVE LIMIT: NA

UPPER EXPLOSIVE LIMIT: NA

AUTO IGNITION TEMPERATURE: Unknown

SECTION 6 ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS

NA

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NOTIFICATION INFORMATION

There are no specific reporting requirements for release of this material as supplied under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendment and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements for the release of this material at the local, regional or state level.

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE PROCEDURES

Protect electrical equipment from airborne contamination. Carbon fibers are electrically conductive and may cause short circuits resulting in damage to or malfunctioning of electrical equipment. Incineration may result in the release of airborne fibers. Do not eat, drink or smoke in areas of use or storage. Wash hands and face thoroughly after handling and before eating.

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: Respiratory protection is not normally necessary.

PROTECTIVE CLOTHING: Protective clothing is not normally necessary.

EYE PROTECTION: Eye protection is not normally required.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

COLOR: Gray/Black

SPECIFIC GRAVITY (water=1): 1.6-1.8

VAPOR PRESSURE: NA

VAPOR DENSITY (air=1): NA

MELTING POINT: ND

BOILING POINT: NA

EVAPORATION RATE (water=1): NA

% VOLATILE BY VOLUME: NA

SOLUBILITY IN WATER: Insoluble

pH: NA

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizer

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition may be hazardous and may produce carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION 11 DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD

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: NA

PROPER SHIPPING NAME: NA

LABELS REQUIRED: NA

PLACARDS REQUIRED: NA

BILL OF LADING DESCRIPTION: Product Name

UN/NA CODE: NA

SECTION 13 REGULATORY INFORMATION

Carbon is listed on the Toxic Substances Control Act (TSCA) inventory. Carbon is listed on the Canadian Domestic Substances List (DSL) inventory.

The Canadian Workplace Hazardous Materials Information System (WHMIS) Other Toxic Effects category applies to this product.

This product is not classified under the hazard categories of the Superfund Amendments and Reauthorization Act (SARA) Section 311/312 (40 CFR 370)

SECTION 14 OTHER APPLICABLE INFORMATION

INCINERATION:

Attempts to incinerate may cause fibers to become widely dispersed and result in failure of electrical equipment.

NA = Not Applicable

ND = Not Determined

MSDS - Semicarb™

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REVISION DATE: August 1, 2002 REPLACES SHEET DATED: December 20, 1999
COMPLETED BY: CLAYTON GROUP SERVICES, INC.

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