

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME OR NUMBER: **CS1500D**

Polysiloxane Resin Based Paint

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 mixture of metals, metal carbides, borides, and oxides	Mixture	55-65	PEL 10 mg/m ³ (Total dust); 5 mg/m ³ (Respiratory fraction) TLV 10 mg/m ³ (Nuisance dust)
Xylene	1330-20-7	20-25	PEL 100 ppm; STEL 150 ppm TLV 100 ppm; STEL 150 ppm
Toluene	108-88-3	7-11	PEL 50 ppm; STEL 150 ppm TLV 50 ppm; Skin
Dimethyl, diphenyl, methyl, phenyl silicone resin	110775-80-9	7-11	None Established
Benzene	71-43-2	< 0.19 (impurity, 0.03 typical)	PEL 1 ppm; STEL 5 ppm TLV 0.5 ppm Skin; STEL 2.5 ppm

SECTION 3 HEALTH HAZARD IDENTIFICATION

PRIMARY ROUTES OF ENTRY

EYE: Causes severe eye irritation. May cause pain, watering, burns and corneal damage.

SKIN: Causes mild skin irritation and drying of skin.

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INGESTION: Harmful if swallowed. Causes vomiting, nausea, and diarrhea. Causes irritation of the mouth, throat, and stomach. Toxic to blood, kidneys, lungs, liver, nervous system, and mucous membranes.

INHALATION: Vapor may irritate nose and throat. Overexposure by inhalation may cause central nervous system effects, including headache, dizziness, nausea, drowsiness, blurred vision, and loss of consciousness. Overexposure by inhalation may injure the blood, kidneys, lungs, and liver

CARCINOGEN LISTINGS: Benzene is listed by IRAC, NTP, and OSHA as a carcinogen. (IRAC Group – 1).

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. Get medical attention immediately.

SKIN: Thoroughly wash exposed area of skin with soap and water. Rinse with flooding amounts of water. Get medical attention if irritation or other symptoms develop.

INGESTION: Do not induce vomiting. Get medical attention.

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. Keep affected person warm and at rest.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use dry chemical, foam, or CO₂.

SPECIAL FIRE FIGHTING INSTRUCTIONS:

Do not use water. Use dry chemical, foam, carbon dioxide, or sand. Irritating or toxic substances may be emitted upon thermal decomposition. Exposed firefighters should wear NIOSH approved self-contained breathing apparatus with full face mask and full protective equipment. Flammable in the presence of open flames and sparks.

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FLASH POINT: 50°F (10°C)

LOWER FLAMMABLE LIMIT: 1.2%

UPPER FLAMMABLE LIMIT: 7.0%

AUTO IGNITION TEMPERATURE: 997°F (536°C)

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. Wipe, scrape or soak up with an inert material and place in hazardous waste container for disposal. Remove sources of ignition. Insure proper ventilation is available.

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 32 gal (400 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.

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE PROCEDURES

Warning! Flammable liquid. Keep away from sources of ignition.

NA = Not Applicable

ND = Not Determined

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Store upright. Refrigerate to extend shelf life. Keep container tightly closed when not in use. Avoid breathing vapors and contact with skin and eyes. Use only in well ventilated areas. Wear suitable protective clothing as described in Section 8.

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:

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 neoprene or nitrile gloves when handling this product. Wash after use. Contaminated clothing should be removed as soon as practical and thoroughly cleaned before reuse.

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.

OTHER PROTECTIVE EQUIPMENT:

Wear protective clothing to prevent contamination of skin and clothes.

If the material is to be sprayed, use in an approved spray booth.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid Slurry

COLOR: Gray-Brown

SPECIFIC GRAVITY (water=1): 1.5

VAPOR PRESSURE: ND

VAPOR DENSITY (air=1): ND

MELTING POINT: NA

BOILING POINT: ND

EVAPORATION RATE (water=1): ND

% VOLATILE BY VOLUME: 55-65%

SOLUBILITY IN WATER: Negligible. Slight reaction with water

pH: NA

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY:

Reactive or incompatible with strong acids or alkalis. Keep away from heat, sparks or flame.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal breakdown of this product during fire may evolve carbon oxides and traces of incomplete burned carbon products, silicone dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur.

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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).

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: Flammable Liquid

PROPER SHIPPING NAME: Resin Solution, Flammable

LABELS REQUIRED: Flammable Liquid

PLACARDS REQUIRED: Flammable

BILL OF LADING DESCRIPTION: Resin Solution, Flammable, 3, UN1866, II

UN/NA CODE: UN1866

PACKING GROUP: II

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 concentration) that are subject to the annual toxic chemical release reporting requirements of SARA Section 313 (40 CFR 372).

<u>Component</u>	<u>CAS Number</u>	<u>Maximum %</u>
Xylene	1330-20-7	25
Toluene	108-88-3	11
Benzene	71-43-2	<0.19 (impurity, 0.03 typical)

This product contains benzene, toluene, and xylene 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 releases 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 and benzene, chemicals subject to the State of California Proposition 65, the Safe Drinking Water and Toxic Enforcement Act of 1986.

SECTION 14 OTHER APPLICABLE INFORMATION

This product contains Methypolysiloxanes that can generate formaldehyde at approximately 300 °F and above. Formaldehyde is a skin and respiratory sensitizer, an eye and throat irritant, and an acute toxicant. Formaldehyde is a suspected human carcinogen.

Product may form a small amount of diborane upon exposure to acidic water. Diborane is a toxicant.

REVISION DATE: March 4, 2003 REPLACES SHEET DATED: March 6, 2000
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.

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