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MATERIAL SAFETY DATA SHEET

Prepared April 2011 Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

SECTION 1: PRODUCT INFORMATION

PRODUCT NAME: **CARBON WELD/BEAM 35/150**

PRODUCT CLASS: **CARBON FIBER SYSTEMS**

SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER	LIMITS FOR AIR CONTAMINANTS
CARBON FIBER POLYACRYLONITRILE (PAN) - BASED CARBON	7440-44-0	Not established by OSHA or ACGIH. Under certain conditions, may give off nuisance dust, rated at 5 mg/m³ as breathable, and 15 mg/m³ total dust

SECTION 3: PHYSICAL DATA

BOILING RANGE: **NA**

VAPOR DENSITY: **NA**

EVAPORATION RATE: **NA**

SECTION 4: FIRE AND EXPLOSION DATA

FLAMMABLE LIMITS: **NA** FLASH POINT: **ND** MAIN COMBUSTION GAS: **CO₂,CO,N₂,HCN,H₂O**

EXTINGUISHING MEDIA: **NORMAL FIREFIGHTING PROCEDURES**

UNUSUAL FIRE HAZARDS: **AIRBORNE FIBERS ARE ELECTRICALLY CONDUCTIVE**

SECTION 5: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE	-----	EMERGENCY FIRST AID PROCEDURES
EYES: Dust may irritate and/or damage eyes	-----	Flush eyes with water 15 minutes. Seek medical attention
SKIN: Dust may cause irritation or allergic reaction	-----	Wash affected areas thoroughly with soap and water
INHALATION: Dust may irritate throat and lungs	-----	Move to fresh air. Seek medical attention if necessary
INGESTION: In the event of digestion seek immediate medical attention. Do not induce vomiting unless instructed by physician		

SECTION 6: REACTIVITY DATA

STABILITY: **STABLE**

CONDITIONS TO AVOID: **CAN REACT WITH STRONG OXIDIZING AGENTS**

HAZARDOUS DECOMPOSITION PRODUCTS: **CO₂, CO, N₂, HCN, H₂O**

HAZARDOUS POLYMERIZATION: **WILL NOT OCCUR**

INCOMPATIBILITY: **OXIDIZERS**

SECTION 7: SPILL OR LEAK PROCEDURE

IN CASE OF SPILL: **IF CARBON FIBER REMAINS UNCONTAMINATED, PLACE INTO CLEAN CONTAINER FOR FUTURE USE. OTHERWISE, PLACE IN PROPER WASTE RECEPTACLE. VACCUUM AREA THOROUGHLY, AS AIRBORNE DUST IS ELECTRICALLY CONDUCTIVE. TAKE NECESSARY STEPS TO AVOID ELECTRIC SHOCK.**

DISPOSAL METHOD: **INDUSTRIALLY APPROVED FOR LANDFILL SITES. DO NOT INCINERATE. CONSULT LOCAL, STATE, AND FEDERAL AUTHORITES PRIOR TO DISPOSAL.**

SECTION 8: SAFE HANDLING & USE INFORMATION

RESPIRATORY PROTECTION: **IF TLV OF PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA JOINTLY APPROVED AIR-SUPPLIED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL**

VENTILATION: **PROVIDE SUFFICIENT MECHANICAL VENTILATION TO MAINTAIN EXPOSURE BELOW TLV**

PROTECTIVE CLOTHING: **IMPERVIOUS GOGGLES, GLOVES, AND CLOTHING PREVENT EYE AND SKIN CONTACT**

HYGIENIC PRACTICES: **WASH WITH SOAP AND WATER AFTER USE AND BEFORE EATING OR SMOKING**

SECTION 9: SPECIAL PRECAUTIONS

STORAGE AND HANDLING: **AIRBORNE PARTICLES AND FILAMENTS SHOULD BE CONTROLLED SO AS TO MINIMIZE SKIN IRRITATION AND ELECTRICAL SHORTS IN OUTLETS, APPLIANCES, ETC. DUE TO CONDUCTIVITY OF FIBER**

OTHER PRECAUTIONS: **PROTECT ALL ELECTRICAL EQUIPMENT, IN OR NEAR AREAS IN WHICH FIBER IS HANDLED OR USED, FROM CONTACT WITH AIRBORNE PARTICLES AND FILAMENTS TO AVOID POSSIBBLE DAMAGE CAUSED BY ELECTRICAL SHORTS**

WARRANTY: The information contained in this document is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. The customer must inspect and test our products before use, and satisfy themselves as to the contents and suitability. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials, and in no event shall we be liable for special, incidental, or consequential damages.