



LIGHTWEIGHT, ULTRA-STRONG, & NON-CORROSIVE COMPOSITE REINFORCING BAR

MATERIAL SAFETY DATA SHEET (MSDS)

INFORMATION & EMERGENCY CONTACT:

KARBON BAR
P.O. BOX 8127
BEND, OR 97701
+1 (760) 881-6627

SYNONYMS: FIBERGLASS REBAR, EPOXY REBAR, FRP REBAR, NANOREBAR

SEC. II - HAZARDOUS INGREDIENTS / IDENTITY / INGREDIENT COMPOSITION INFORMATION:

| CHEMICAL NAME | CAS NUMBER | % RANGE | OSHA PEL |
|--------------------------|------------|---------|----------|
| EPOXY-BASED RESIN | N/A | 16.75% | N/A |
| FIBEROUS GLASS | N/A | 82% | N/A |
| GRAPHENE | N/A | 1.25% | N/A |

SEC. III - PHYSICAL / CHEMICAL CHARACTERISTICS

| APPEARANCE & ODOR | SOLUBILITY IN WATER | SPECIFIC GRAVITY (H ₂ O=1) | EVAPORATION RATE (BUTYLACETATE=1) | BOILING POINT | VAPOR DENSITY (AIR=1) | CHEMICAL FORMULA | VAPOR PRESSURE (MMHg) | MELTING POINT |
|-------------------|---------------------|---------------------------------------|-----------------------------------|---------------|-----------------------|------------------|-----------------------|-------------------|
| GRAY SOLID | INSOLUBLE | 2.0 | N/A | N/A | N/A | N/A | N/A | 212 ^{oF} |

SEC. IV - FIRE & EXPLOSION HAZARD DATA

- **FLASH POINT (METHOD USED):** N/A
- **EXTINGUISHING MEDIA:** CARBON DIOXIDE DRY CHEMICAL (SMALL FIRES) / FOAM AND WATER FOG (LARGE FIRES)
- **SPECIAL FIRE FIGHTING PROCEDURES:** BURNING ROD WILL CREATE AN ACRID HEAVY BLACK SMOKE AND ODOR THAT IS EXTREMELY OFFENSIVE. FIRE FIGHTERS MUST WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA). OTHERS MUST SEEK FRESH AIR IMMEDIATELY

SEC. V - REACTIVITY DATA

- **CONDITIONS TO AVOID:** EXPOSURE TO OPEN FLAMES
- **HAZARDOUS DECOMPOSITION PRODUCTS:** CARBON MONOXIDE, CARBON DIOXIDE, ORGANIC ACID LMW, HYDROCARBONS
- **STABILITY:** N/A
- **HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR
- **INCOMPATIBILITY:** NONE KNOWN

SEC. VII - PRECAUTIONS FOR SAFE HANDLING & USE

- **HANDLING & STORING:** USE EYE PROTECTION AND GLOVES WHEN HANDLING: + MASK WHEN CUTTING
- **WASTE DISPOSAL METHOD:** DISPOSE OF AS SOLID WASTE IN ACCORDANCE WITH LOCAL, STATE, & FED REGULATIONS. NOT CONSIDERED HAZARDOUS WASTE UNDER FEDERAL RCRA REGULATIONS
- **STORAGE:** NO SPECIAL STORAGE CONSIDERATIONS NEEDED

SEC. VI HEALTH HAZARD DATA

| | ROUTE OF EXPOSURE | EMERGENCY & FIRST AID PROCEDURE | SEC. VIII - CONTROL MEASURES |
|-------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INHALATION | FIBERGLASS DUST CAN CAUSE RESPIRATORY IRRITATION & PULMONARY EDEMA | MOVE VICTIM TO FRESH AIR. IF BREATHING HAS STOPPED, ADMINISTER CPR. CALL A PHYSICIAN. | NO RESPIRATORY PROTECTION REQUIRED. IF AIRBORNE DUST CONCENTRATIONS EXCEED PERMISSIBLE EXPOSURE LEVELS, USE PROTECTION FOR NUISANCE DUST. USE LOCAL EXHAUST IF NECESSARY TO PREVENT NUISANCE DUST. WHEN CUTTING WITH SAW, WEAR A DUST MASK. |
| INGESTION | INGESTION OF FIBERGLASS OR FIBERGLASS DUST IS UNLIKELY | CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. IF PROFESSIONAL ADVICE UNAVAILABLE, DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON | |
| SKIN | FIBERGLASS DUST CAN CAUSE RASH, ITCHING, CONJUNCTIVITIS, COUGHING, & SNEEZING | WASH AFFECTED AREA WITH SOAP & WATER. WASH CONTAMINATED CLOTHING BEFORE RE-USE. LONG PANTS AND GOOD PERSONAL HYGIENE WILL MAXIMIZE COMFORT | WEAR PROTECTIVE GLOVES TO REDUCE IRRITATION FROM DUST OR SLIVERS |
| EYE | PROLONGED OR REPEATED EXPOSURE TO FIBERGLASS DUST CAN CAUSE PAIN & IRRITATION OF EYES | FLUSH EYES WITH WATER AND SEEK IMMEDIATE MEDICAL ATTENTION | WEAR SAFETY GLASSES WITH SIDE SHIELDS |

CALIFORNIA PROPOSITION 65 WARNING
 ⚠ WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
 ADVERTENCIA: ESTE PRODUCTO CONTIENE PRODUCTOS QUIMICOS RECONOCIDOS POR EL ESTADO DE CALIFORNIA QUE PROVOCAN CÁNCER, DEFECTOS DE NACIMIENTO U OTROS DAÑOS REPRODUCTIVOS. ⚠