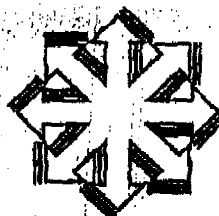




JOHNSTON INDUSTRIES
**COMPOSITE
 REINFORCEMENTS**
 INCORPORATED



**MATERIAL SAFETY DATA SHEET
 GLASS GROUP**

SECTION I

TRADE NAME AND SYNONYMS: VECTORPLY®-NON CRIMP FABRICS
 CHEMICAL NAME AND SYNONYMS: CONTINUOUS FILAMENT FIBER GLASS (FIBROUS GLASS, GLASS FIBERS)
 MANUFACTURER'S NAME: JOHNSTON COMPOSITE REINFORCEMENTS INCORPORATED
 ADDRESS: 3503 LAKEWOOD DRIVE, PHENIX CITY, AL 36867 USA
 TELEPHONE: (334) 291-7704

SECTION II - INGREDIENTS

	%	TLV(R) (LIMITS)	REL
FIBROUS GLASS: COMPOSITIONS CONSISTING PRINCIPALLY OF OXIDES OF SILICON ALUMINUM, CALCIUM, BORON, AND MAGNESIUM FUSED IN AN AMORPHOUS VITEROUS STATE.	>99.0	10 MG/M ³	NONE EST. (5mg/m ³ - RESPIRABLE NUISANCE DUST)
SURFACE SIZING:	<1.0	NONE EST.	NONE EST.

SECTION III - PHYSICAL DATA

MELTING POINT (SOFTENING): 800C	SPECIFIC GRAVITY (BARE GLASS): 2.59
BOILING POINT (F): N/A	PERCENT VOLATILE (VOLUME): 0
VAPOR PRESSURE (mm Hg): N/A	EVAPORATION RATE: N/A
VAPOR DENSITY (AIR=1): N/A	SOLUBILITY IN WATER: INSOLUBLE

APPEARANCE AND ODOR: YELLOW-WHITE TO WHITE FIBERS BOUND TOGETHER BY POLYESTER STITCHING TO MAKE NON-CRIMP FABRICS, HAVING NO ODOR.
 FIBER DIAMETER: NORMALLY THERE ARE NO FIBERS WITH DIAMETERS SMALLER THAN 6 MICRONS

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NON-BURNING
 FLAMMABLE LIMITS: N/A
 EXTINGUISHING MEDIA: N/A
 SPECIAL FIRE FIGHTING PROCEDURES: IN A SUSTAINED FIRE, SELF-CONTAINED BREATHING APPARATUS (SCBA) SHOULD BE WORN.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: INHALATION
 SIGNS AND SYMPTOMS OF OVEREXPOSURE: RASH, ITCHING, CONJUNCTIVITIS, COUGHING, SNEEZING.
 HEALTH HAZARDS (ACUTE): EXPOSURE TO GLASS FIBERS SOMETIMES CAUSES IRRITATION OF THE SKIN AND LESS FREQUENTLY, IRRITATION OF THE EYES, NOSE, OR THROAT.
 (CHRONIC): A NUMBER OF EPIDEMIOLOGY STUDIES, DONE OVER MANY YEARS, OF WORKERS EMPLOYED UP TO 40 YEARS THE MANUFACTURE OF FIBERGLASS HAVE SHOWN NO EVIDENCE OF INCREASES IN EITHER MALIGNANT OR NON-MALIGNANT RESPIRATORY DISEASE ATTRIBUTABLE TO FIBERGLASS. HOWEVER, RECENT STUDIES HAVE SHOWN SLIGHT INCREASE IN LUNG CANCER AMONG WORKERS EMPLOYED IN THE MANUFACTURING OF GLASS WOOL, AND MINERAL WOOL INSULATION PRODUCTS.

SECTION V - HEALTH HAZARDS (CHRONIC) CONTINUED:

THOSE SAME STUDIES SHOWED NO EVIDENCE OF A SIMILAR EFFECT AMONG CONTINUOUS FILAMENT FIBER GLASS WORKERS. THIS PRODUCT IS A CONTINUOUS FIBER GLASS PRODUCT. ANIMAL INHALATION STUDIES FOR FIBER GLASS HAVE NOT SHOWN EVIDENCE OF EITHER A CARCINOGENIC OR FIBROGENIC RESPONSE. STUDIES USING ARTIFICIAL IMPLANTATION OR INJECTION OF GLASS FIBERS INTO ANIMALS HAVE RESULTED IN CANCER. HOWEVER, SINCE THERE ARE NO NATURAL MECHANISMS WHICH WOULD MIMIC SUCH ARTIFICIAL EXPOSURES, THOSE STUDIES ARE NOT THOUGHT TO BE RELEVANT TO HUMAN EXPOSURE.

CARCINOGENIC STATUS: CONTINUOUS FILAMENT FIBER GLASS HAS BEEN DESIGNATED BY IARC AS A GROUP 3. "NOT CLASSIFIABLE AS TO HUMAN CARCINOGENICITY". THIS MEANS THAT EVIDENCE IS INSUFFICIENT TO LINK THAT FIBER TO CANCER.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES: EYE CONTACT: FLUSH EYES WITH CLEAR WATER FOR AT LEAST 15 MINUTES - SEEK MEDICAL ATTENTION. SKIN CONTACT: RINSE CONTACTED AREAS WITH ROOM TEMPERATURE TO COOL WATER, THEN WASH GENTLY WITH MILD SOAP. IF FIBER GLASS BECOMES IMBEDDED, SEEK MEDICAL ATTENTION.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN

INCOMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS: IN A SUSTAINED FIRE, BINDERS MAY DECOMPOSE

RELEASING HAZARDOUS PRODUCTS OF COMBUSTION (SEE SECTION IV)

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE KNOWN

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: NO SPECIAL PRECAUTIONS.

WASTE DISPOSAL METHOD: DISPOSE OF AS SOLID WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NOT CONSIDERED A HAZARDOUS WASTE UNDER FEDERAL "RCRA" REGULATIONS.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: NONE NORMALLY REQUIRED. IF AIRBORN FIBER GLASS CONCENTRATIONS EXCEED PERMISSIBLE EXPOSURE LEVELS, RESPIRATORY PROTECTION FOR NUISANCE DUSTS IN ACCORDANCE WITH OSHA 1910.134 SHOULD BE PROVIDED.

VENTILATION: USE LOCAL EXHAUST VENTILATION IF NECESSARY TO MAINTAIN AIRBORN LEVELS TO BELOW ESTABLISHED LIMITS.

PROTECTIVE GLOVES: MAY REDUCE SKIN IRRITATION IN SOME OPERATIONS.

EYE PROTECTION EQUIPMENT: SAFETY GLASS WITH SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE OF LONG SLEEVED SHIRTS, BUTTONED TO FIT LOOSELY AT THE NECK AND WRIST, LONG PANTS, AND GOOD PERSONAL HYGIENE WILL MAXIMIZE COMFORT.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: NONE KNOWN

OTHER PRECAUTIONS: NONE KNOWN