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**FOR CHEMICAL EMERGENCY
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SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT: Part Numbers (3220, 3221, 3222, 3223, 3224, 3225)

Synonyms: All Product Grades

Chemical Family: Carbon

Molecular Formula: Polymer

Molecular Wgt: Polymer

SECTION 2 –HAZARDS IDENTIFICATION

Physical / Chemical Hazards: See Section 10.

In the supplied form the product is not explosive at all, however the build-up of fine dust can lead to a risk of dust explosions.

Human health dangers: See Section 11.

Environmental hazards: No specific hazards known.

Other hazards: None

Hazard symbols: None

R-phrases: None

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS:	7440-44-0	Carbon Fiber (derived from polyacrylonitrile)	> 95%
	Trade Secret	Sizing Chemistry	0 - 5%

Comment on component parts: No dangerous components

SECTION 4 – FIRST AID MEASURES

General information: not applicable

Inhalation: Ensure supply of fresh air.

Skin contact: Supply with medical care. Consult a doctor if skin irritation persists.

Eye contact: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion: Supply with medical care. Rinse out mouth and give plenty of water to drink. Induce the patient to vomit of his own accord only if fully conscious.

Advice to doctor: treat symptomatically

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media: foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used: full water jet

Special exposure hazards arising from the substance or preparation itself or combustion products: carbon monoxide (CO) Nitrogen oxides (NOx).

Special protective equipment for firefighters: Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.

Additional information: Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions: not applicable

Environmental precautions: not applicable

Methods for cleaning up: Take up mechanically. Dispose of absorbed material in accordance within the regulations.

SECTION 7 – HANDLING AND STORAGE

Advice on safe handling: No special measures necessary if used correctly.

Advice on protection against fire and explosion: Dust can form an explosive mixture with air. Keep away from sources of ignition - refrain from smoking.

Requirements for storage rooms and vessels: No special measures necessary.

Advice on storage compatibility: Do not store together with oxidizing agents.

Further information on storage conditions: Store in a dry place, recommended storage temperature: < 50°C, relative humidity: < 85 %.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional advice on system design: Ensure adequate ventilation on workstation.

Respiratory protection: Breathing apparatus in the event of high concentrations. short term: filter apparatus, filter N95

Hand protection: butyl rubber, > 120 min (EN 374)

Eye protection: safety glasses

Skin protection: Mechanical irritation accompanied by itching or dermal effects may occur from exposure to material. Clean room type clothing that consists of a light weight, well ventilated, fabric may prevent the transfer of dust. Consider taping at the wrist and ankle areas to control contact with exposed areas. A PPE hazard analysis should be conducted based on the user processes.

General protective measures: Avoid contact with eyes. Do not inhale dust.

Hygiene measures: Wash hands before breaks and after work. Use barrier skin cream.

Delimitation and monitoring of the environmental exposition: not determined

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form: fiber

Color: black

Odor: odorless

pH-value [1%]: not applicable

pH-value: not applicable

Boiling point [°C]: not applicable

Flash point [°C]: not applicable

Flammability [°C]: not applicable

Lower explosion limit: not applicable

Upper explosion limit: not applicable

Oxidizing properties: no

Vapour pressure [kPa]: not applicable

Density at 20°C [g/ml]: 1.7 – 1.90 (carbon density)

Bulk density [kg/m³]: not applicable

Solubility in water: insoluble

Partition coefficient [n-octanol/water]: not applicable

Viscosity: not applicable

Relative vapor density determined in air: not applicable

Evaporation speed: not applicable

Melting point: ca. 3500 °C

Autoignition temperature: not applicable

Decomposition temperature: begins to oxidize at temperatures > 240 °C in a standard air environment

Electrically Conductivity: yes

SECTION 10 – STABILITY AND REACTIVITY

Hazardous reactions: Reactions with strong oxidizing agents. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

Hazardous decomposition products: No hazardous decomposition products will be formed during normal useage of carbon fiber. Complete or partial combustion of the surface coating on "sized" carbon fiber may generate COx, NOx, and / or other trace chemicals.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute oral toxicity: not determined
Acute dermal toxicity: not determined
Acute inhalational toxicity: not determined
Irritant effect on eye: not determined
Irritant effect on skin: not determined
Sensitization: not determined
Subacute toxicity: not determined
Chronic toxicity: not determined
Mutagenicity: not determined
Reproduction toxicity: not determined
Carcinogenicity: not determined
Experiences made in practice: Fiber abrasion can cause mechanical skin irritation.

SECTION 12 – ECOLOGICAL INFORMATION

Fish toxicity: not applicable
Daphnia toxicity: not applicable
Behavior in environment compartments: not determined
Behavior in sewage plant: not applicable
Bacteria toxicity: not determined
Biological degradability: not applicable
COD: not determined
BOD 5: not determined
AOX-advice: No dangerous components.
General information: Ecological data are not available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product:

For recycling, consult manufacturer.
For recycling, consult waste disposal centers.

Contaminated packaging:

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

SECTION 14 – TRANSPORT INFORMATION

Classification according to DOT: non- hazardous

- Classification Code:
- Label:
- ADR Limited Quantities:

Classification according to IMDG: not classified as "Dangerous Goods"

- EMS:
- Label:
- IMDG Limited Quantities:

Classification according to IATA: not classified as "Dangerous Goods"

- Label:
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SECTION 15 – REGULATORY INFORMATION

Exposure Risk: not determined

Chemical safety report: not determined

Labeling: All chemicals in this product are included on the TSCA Inventory

Hazard symbols: none

R-phrases: none

S-phrases: none

Special labeling:

Authorization, TITLE VII: not applicable

Restrictions, TITLE VIII: not applicable

TRANSPORT REGULATIONS: IATA-DGR (2008).

SECTION 16 – OTHER INFORMATION

Observe employment restrictions for people: no

VOC (1999/13/CE): not applicable

SECTION 17 - COMMENTS

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with Fibre Glast Developments or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.