SAFE USE INSTRUCTION SHEET



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0. General Information

This Safe Use Instruction Sheet is the document provided by Neuvokas Corporation to communicate recommended safe handling and use instruction for articles not regulated by OSHA Hazard Communication Standard, 29 CFR 1910.1200

1. IDENTIFICATION

Product Name Fiberglass Rebar

Synonyms Glass Fiber Reinforced Polymer Bar, FRP Rebar, GFRP Rebar, GatorBar Glass

Recommended Use Industrial and professional use: reinforcement of concrete structures.

Supplier Address Neuvokas Corporation Manufacturer Neuvokas Corporation

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Ahmeek, Michigan 49901 Ahmeek, Michigan 49901

Company Phone Number 906-934-2661 (8:00am-5:00pm Eastern Time)

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Company Website http://www.neuvokascorp.com/

2. HAZARDS IDENTIFICATION

Regulatory Status This product is not classified as hazardous according to OSHA Hazard Communication

Standard, 29 CFR 1910.1200. These products are articles

Articles which meet the definition of 29 CFR 1910.1200 (b)(6)(v) (a manufactured item other

than a fluid or a particle: (i) which is formed to a specific shape or design during

manufacture; (ii) which has an end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical (as determined in paragraph (d) of this section), and does not pose a physical hazard or health risk to employees) are not regulated by OSHA HazCom Standard

Other Information May cause skin abrasion in case of direct manual handling

When being cut or grinded these products may release dust (Particles Not Otherwise

Regulated), See Section 8 for Exposure Limit Data.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Comments Fiberglass Rebars are made of ca. 70 - 80% (w/w) of Continuous Filament Glass Fibers

and ca. 20 - 30% (w/w) of cured thermoset resin and mineral filler, which incudes, for some products, a sand coating. They are available in the form of cylindric rebars, of several

nominal diameters and lengths.

4. FIRST AID MEASURES

Description of First Aid Measures

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Eve contact •DO NOT rub or scratch eyes

•Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes

•lfeye irritation persists: Get medical advice/attention

•DO NOT rub or scratch affected area Skin contact

·Wash off immediately with soap and plenty of cold water

·Ifskin irritation persists, call a physician

Inhalation Inhalation of this product is unlikely

Ingestion ·Accidental release of this product is unlikely

5. FIRE-FIGHTING MEASURES

 Only the hardened thermoset resin is combustible and could release small quantities of Flammable properties

hazardous gas in case of major and prolonged heat or fire. Glass fibers are not flammable, are incombustible and do not support combustion. Avoid exposing the product to open

flames.

•Use CO2, dry chemical, or foam Suitable extinguishing media

·Water spray or fog

Protective equipment and

•As in any fire, wear self-contained breathing apparatus (SCBA) and full fire-fighting precautions for firefighters

protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions ·Accidental release of this product is unlikely

Methods for cleaning up Accidental release of this product is unlikely

7. HANDLING AND STORAGE

 Prevent and/or minimize dust formation Precautions for safe handling

·Wear appropriate personal protective equipment in case of direct contact with the product

•Do not store Fiberglass Rebars directly on ground. Place timber pallets under bars to keep Storage Conditions

them free from dirt & mud and to provide easy handling. Store Fiberglass Rebars under

covers to avoid direct sunlight & other chemical substances contact.

•Keep away from open flames and other ignition sources.

Incompatible materials None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

There is no Occupational Exposure Limit directly associated with Fiberglass Rebars, except airborne nuisance dust which may occur under certain process conditions (e.g. cutting and grinding)

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Continuous filament glass fiber,	TWA: 1 fiber/cm3 respirable fibers:	•	-
non-respirable	length >5 µm, diameter less than 3		
-	μm, aspect ratio >=3:1, as		
	determined by the membrane filter		
	method at 400-450X magnification		
	[4-mm objective], using		
	phase-contrast illumination		
	TWA: 5 mg/m³ inhalable particulate		

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	matter		
Aluminum Oxide 1344-28-1	TWA: 1.0 mg/m³ respirable particulate matter	TWA: 15 mg/m3 total dust TWA 5.0 mg/m³ respirable fraction	-

NIOSH REL: No established REL

OSHA PEL: TWA for Inert or Nuisance Dust are: 5 mg/m3 (Respirable fraction) and 15 mg/m3 (Total dust)

Engineering Controls If and when cutting or grinding Fiberglass Rebars in confined spaces provide local exhaust

and/or general ventilation to maintain exposure below applicable occupational exposure

limits

Individual protection measures, such as personal protective equipment

Eye/face protection •Avoid contact with eyes

•Personal Protective Equipment usually used on Construction jobsite are appropriate

Skin and body protection •Avoid contact with skin

Wear protective gloves

•Personal Protective Equipment usually used on Construction jobsite are appropriate

Respiratory protection •If and when cutting or grinding Fiberglass Rebars in confined spaces provide local

exhaust and/or general ventilation to maintain exposure below applicable occupational

exposure limits

General Hygiene Considerations •Wash hands before breaks and immediately after handling products

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid

Components Information

Appearance In the form of cylindrical bars, of various diameter (3/8 to 5/8 in)

Odor
Color
Black or Pink
Water solubility
Density
Explosive properties
Odorless
Black or Pink
Insoluble in water
ca. 2.1 (H2O = 1)
Not an explosive

Decomposition temperature The hardened thermoset resin starts to decompose at about 220°C

10. STABILITY AND REACTIVITY

Stability •Stable under normal conditions

Possibility of Hazardous Reactions •None under normal processing conditions

Hazardous Decomposition Products •None under normal use conditions

•Small quantities of undetermined hazardous decomposition products may be released in

case of heat exposure or during a fire

11. TOXICOLOGICAL INFORMATION

Product Information Under normal conditions of use no health effect is anticipated.

Dusts and fibers may cause temporary skin and mucous membranes itching due to mechanical abrasion effect of fibers. Mechanical abrasion is not considered as a health hazard in the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Inhalation may cause coughing, nose and throat irritation and sneezing. High exposures may cause difficult breathing, congestion and chest tightness

Continuous filament glass fibers are not respirable according to the World Health

Organization (WHO) definition. Respirable fibers have a diameter (d) smaller than 3µm, a length (I) larger than 5µm and a I/d-ratio larger than or equal to 3. Fibers with diameters greater than 3 microns, which is the case for continuous filament glass fiber, do not reach the lower respiratory tract and, therefore have no possibility of causing serious pulmonary disease. Continuous filament glass fibers do not possess cleavage planes which would allow them to split length-wise into fibers with smaller diameters, rather they break across the fiber, resulting in fibers which are of the same diameter as the original fiber with a shorter length and a small amount of dust. Microscopic examination of dust from highly chopped and pulverised glass demonstrated the presence of small amounts of respirable dust particles. Among these respirable particles, some were fiber-like in terms of I/d ratio (so-called "shards"). It can be clearly observed however that they are not regular shaped fibers but irregular shaped particles with fiber-like dimensions. To the best of our knowledge, the exposure levels of these fiber-like dust particles measured at our manufacturing plants are of the order of magnitude between 50 to 1000 below existing applicable limits

ACGIH (American Conference of Governmental Industrial Hygienists)

Continuous filament glass fibers are classified as A4 - Not Classifiable as a Human Carcinogen

IARC (International Agency for Research on Cancer)

The International Agency for Research on Cancer (IARC) in June, 1987, and in October, 2001 (see IARC Monographs on the Evaluation of Carcinogenic risks to humans - Man-made Vitreous Fibers - Volume 81), categorized continuous filament fiber glass as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify continuous filament fiber glass as a confirmed, probable or even possible cancer causing material

NTP (National Toxicology Program)

Continuous filament glass fibers are not listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition)

Classification according to Continuous filament glass fibers are not listed in the Table of harmonized classification Regulation (EC) No. 1272/2008 [CLP]entries in Annex VI to CLP Regulation.

12. ECOLOGICAL INFORMATION

This product is not expected to be hazardous for the environment

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable regional, national and local laws and regulations

14. TRANSPORT INFORMATION

These products are not classified as dangerous goods according to international transport regulations

15. REGULATORY INFORMATION

International Inventories

These products are articles. Articles are exempted from registration or listing under chemicals inventories like TSCA (USA), DSL/NDSL (CAN), REACH (EU), ENCS (JP), IECSC (CN), KECL (KR), PICCS (PH), AICS (AUS)

California Proposition 65

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www P65Warnings ca gov.

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Chemical name		California Proposition 65			
	N/A	N/A			

16. OTHER INFORMATION

Prepared By Neuvokas Corporation

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Disclaimer

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use

End of Safe Use Instruction Sheet
