

Safety Data Sheet

Green Umbrella™ Fi-Bar



Fi-Bar

the next generation of reinforcement

Product Identification

| | |
|------------------------------------|---|
| Product Name: | Green Umbrella™ Fi-Bar |
| Product Use: | Crack reducing additive |
| Effective Date: | March 1, 2014 |
| Manufacturer Information: | Green Umbrella™ 20 Jet View Rochester, NY Telephone Number: 844-200-7336 |
| USA Emergency Phone Number: | |
| For Medical Emergency | Call 1-800-535-5053 |
| Outside the United States | Call collect +1-352-323-3500 |

Hazard(s) Identification

| | |
|------------------|--|
| Skin Contact: | Contact with fibers may cause mechanical irritation of skin. |
| Inhalation: | Some individuals, e.g. with asthma or bronchitis, are likely to be intolerant of high concentrations of airborne fibers or fiber dust when processing. |
| Skin Absorption: | None known |
| Eye Contact: | Fibers or fiber dust may cause irritation or scratch the surface of eyes. |
| Ingestion: | None known |

Composition/Information on Ingredients

| Material or Component | CAS No. | EINECS No. | By weight |
|--|------------|------------|-----------|
| Adipic acid-hexamethylenediamine Resin, (nylon 6/6) | 32131-17-2 | ----- | >=100% |
| Poly (hexamethylene adipamide-co-caprolactam (nylon 6 6/6) | 24993-04-2 | ----- | >=100% |

First Aid Measures

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| Eyes: | Flush with water to remove particles. |
| Skin: | Wash off with soap and water. |
| Inhalation: | Remove to fresh air if effects occur and should seek medical attention if coughing or other symptoms occur |
| Ingestion: | No treatment required (no harm). |
| Notes to Physician: | Fibers can be regarded as physiologically inert since, so far, no poisoning or other injurious effects have been observed in cases where this material has been used internally (surgical sutures, replacement of blood vessels, etc.). On external contact, no signs of dermatitis or other skin injury have been observed. |

Fire Fighting Measures

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|---------------------------------------|---|
| Flash Point: | 305°C |
| Autoignition Temperature: | 485°C |
| Flammable Limits in Air, % by Volume: | Not determined |
| Extinguishing Media: | Water, CO2, Dry Chemicals, Foam-Fog |
| Special Fire Fighting Procedures: | Avoid excessive inhalation of smoke or potential thermal decomposition products. Wear self contained breathing apparatus meeting NIOSH standards. |
| Unusual Fire & Explosion Hazard: | None |

Accidental Release Measures

| | |
|---|--|
| Aquatic Toxicity: | None known |
| Steps to be taken if Material is released of Spilled: | Sweep or vacuum up and place in a waste disposal container to an approved landfill or reuse. |
| Neutralizing Chemicals: | Not applicable |

Handling and Storage

| | |
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| Precautionary Statements: | No special handling has been shown to be necessary. |
| Other Handling & Storage Requirements: | Do not store near flame or incompatible materials. Maintain good housekeeping to control dust |

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Exposure Controls/Personal Protection

Ventilation Requirements: Local exhaust for fiber dust only.

Specific Personal

Personal Protective Equipment (PPE): **Respiratory-** For operators where inhalation exposure can occur, a NIOSH approved respirator recommended by an industrial hygienist may be necessary.

Eye- For operations where eye or face contact may occur, eye protection such as goggles or a face shield is recommended.

Skin- Not required.

Additional Equipment- Not required.

Exposure Guidelines: Dust should be considered a nuisance dust:

ACGIH TLV 10mg/m³ total dust

OSHA PEL: 15 mg/m³ total dust; 5-mg/m³ respirable dust

Physical & Chemical Properties

| | | | | | |
|-------------------|-----------------------------|----------------------|----------------|-------------------|----------------|
| Chemical Formula: | | Melting Point: | 254-266°C | Odor: | Not Applicable |
| Molecular Weight: | Not Determined | Boiling Point: | Not determined | Vapor Pressure: | Not Applicable |
| Specific Gravity: | 1.12-1.16 g/cm ³ | Solubility in water: | Not soluble | VOC (percent): | None |
| Physical State: | White solid | pH: | Not Applicable | Evaporation Rate: | Not Applicable |

Stability and Reactivity

Incompatibilities:

Tends to decompose in strong acids & bases

Conditions Contributing to Instability:

Contact with flame; temperatures above 300°C

Hazardous Decomposition Products:

At temperatures above 340°C/644°F, C, CO, CO₂, NO₂, NO₃, HCN

Conditions Contributing to Hazardous

Polymerization:

Hazardous polymerization will not occur.

Toxicological Information

The fiber product is not toxic.

Ecological Information

Aquatic Toxicity: No data available.

Disposal Considerations

RCRA:

Is the unused product a RCRA waste if discarded? No

Waste Disposal Method:

Dispose of in accordance with applicable governmental non-hazardous solid waste regulations.

Steps to be taken if material is

Released or spilled:

Sweep up and place in a waste disposal container.

Neutralizing Chemicals:

Not applicable.

Transport Information

US DOT Proper Shipping Name: Green Umbrella™ Fi-Bar

US DOT Hazard Class: Not applicable

USDOT ID Number: Not applicable

Regulatory Information

International

IATA: Not regulated.

IMDG: Not regulated

Canada WHMIS: Not a controlled product

Japan MITI:

TSCA: This product, or all its ingredients, is certified for inclusion On the TSCA Inventory of Chemical Substances.

State

CA Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or birth defects.

Federal

SARA: No Ingredients listed

Other Information

Disclaimer:

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