

## SuperLite VGX<sup>®</sup> Light-Weight Reinforced Thermoplastic

### SECTION 1

#### Trade Name and Synonyms:

SuperLite VGX Light-Weight Reinforced Thermoplastic (LWRT) sheet

#### Chemical Name and Synonyms:

Chopped filament glass-fiber reinforced Polypropylene based composites. This MSDS is for all types, grades and colors of polypropylene based SuperLite VGX composites manufactured by AZDEL, Inc.

#### Manufacturer's Name:

AZDEL, Inc.

#### Plant Address:

2000 Enterprise Drive, Forest, VA 24551, USA

#### Emergency Telephone No.:

(434) 386-6524

### SECTION 2 - Ingredients

#### Ingredients:

##### Polypropylene:

%

25-75

##### TLV (R) (UNITS)

None Established

##### PEL

None Established  
5 mg/m<sup>3</sup> respiratory  
nuisance dust

##### Fibrous Glass:

25-75

10 mg/m<sup>3</sup>

A continuous and/or chopped filament glass fiber with composition consisting principally of oxides of silicon, aluminum, calcium, boron, and magnesium fused in an amorphous vitreous state.

##### Trade Secret:

0-10

None Established

None Established

Ingredient available upon request under conditions of 29CFR1910.1200

##### Anti-oxidants, Pigments, and Processing Aids:

<5

3.5 mg/m<sup>3</sup>

3.5 mg/m<sup>3</sup>

### SECTION 3 - Physical Data

#### Melting Point:

327°F

#### Specific Gravity (H<sub>2</sub>O = 1.0):

<1.0

#### Boiling Point:

Not Applicable

#### Volatiles:

<1.0%

#### Vapor Pressure (mm Hg):

Not Applicable

#### Evaporation Rate:

Not Applicable

#### Vapor Density (Air=1):

Not Applicable

#### Solubility in Water:

Insoluble

#### Appearance, Odor and Fiber Diameter:

The odor of AZDEL resin processing fumes, if any, is mild and may vary somewhat with specific resin formulations. In general, the odor is not offensive to most individuals. Normally there are no fibers with diameters smaller than 6 microns in any AZDEL product.

### SECTION 4 - Fire and Explosion Data

#### Flash Point:

Ignition Temperature: 625°F

#### Flammable Limits:

Not Applicable

#### Extinguishing Media:

Dry Chemical, CO<sub>2</sub>, H<sub>2</sub>O

#### Special Fire Fighting Procedures:

In a sustained fire, self-contained breathing apparatus (SCBA) should be worn.

#### Unusual Fire and Explosion Hazards:

Severe overheating of AZDEL composites can result in auto-ignition.

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### SECTION 5 - Health Hazard Data

**Primary Route(s) of Entry:** Inhalation

**Signs and Symptoms of Exposure:** 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 for up to 40 years in the manufacture of fiberglass have shown no evidence of increases in either malignant or non-malignant respiratory disease attributable to exposure to fiber glass. However, recent studies have shown slight increases in lung cancer among workers employed in the manufacture of glass wool and mineral wool insulation products. Those same studies showed no evidence of a similar effect among continuous filament fiberglass workers. This product is a continuous/chopped filament fiberglass product. Animal inhalation studies of fiberglass 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 that would mimic such artificial exposures, those studies are not thought to be relevant to human exposure.

None of the base resins in the physical form present in AZDEL composites are hazardous substances within the meaning of the OSHA Hazard Communication Standard.

**Carcinogenicity Status:** Chopped filament fiberglass 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.

**Molten Resins:** If molten material comes in contact with the skin, cool under a running stream of water. **Do not attempt to remove the resin from the skin.** Removal could result in severe tissue damage. Seek medical attention.

**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 area with room temperature to cool water and then wash gently with mild soap. If fiberglass becomes embedded, seek medical attention.

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### SECTION 6 - Reactivity Data

|  |  |
|--|--|
| <b>Stability:</b>                          | Stable   |
| <b>Conditions to Avoid:</b>                | None Known   |
| <b>Incompatibility, Material to Avoid:</b> | Avoid contact with hot or concentrated nitric and perchloric acids, fuming sulfuric acid, or 98% sulfuric acid at 140°F.   |
| <b>Hazardous Decomposition Products:</b>   | In a sustained fire, resin may decompose releasing hazardous products of combustion. Molding at temperatures above those prescribed releases hazardous decomposition products. |
| <b>Hazardous Polymerization:</b>           | Will Not Occur   |
| <b>Conditions to Avoid:</b>                | None Known.  |

### SECTION 7 - Spill or Leak Procedure

|   |  |
|---|--|
| <b>Steps to be taken in case material is released or spilled:</b> | No Special Precautions   |
| <b>Waste Disposal Method:</b>                                     | Dispose of as solid in accordance with local, state, and federal regulations. Not considered a hazardous waste under federal "RCRA". |

### SECTION 8 - Special Protection Information

|                                    |  |
|------------------------------------|--|
| <b>Respiratory Protection:</b>     | None normally required. If airborne fiberglass concentrations exceed permissible exposure levels, respiratory protection for nuisance dusts in accordance with OSHA 1910.134 should be provided. |
| <b>Ventilation:</b>                | Use local ventilation if necessary to maintain airborne dust levels to below established limits.   |
| <b>Local Exhaust:</b>              | Recommended during heating and molding.  |
| <b>Protective Gloves:</b>          | May reduce skin irritation or burns during processing.   |
| <b>Eye Protection:</b>             | Safety glasses with side shields.  |
| <b>Other Protective Equipment:</b> | Clothing to prevent contact with hot product is necessary. Contact with molten resin may cause burns.  |

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### SECTION 9 - Special Precautions

#### **Precautions for safe processing:**

- When heated to processing temperatures virtually all thermoplastics emit processing fumes. The exact composition and concentration of processing fumes depend on the resin formulation including additives, the residence time in the process equipment, equipment variables such as oven design, venting parameters etc., and the process temperature.
- When this resin is processed according to AZDEL, Inc.'s recommended guidelines (available on request) and taking normal precautions detailed below, there are no known adverse effects to human health.
- Certain sensitive individuals and those with respiratory impairments, however, may experience some temporary irritation by exposure to specific components in the processing fumes. Bring the person into fresh air. Treat eye irritation by flushing with clean, low-pressure water. Treat skin irritation by washing with soap and water. Seek medical attention if irritation persists.

#### **Normal Precautions:**

- Good industrial practice requires adequate general ventilation of the workplace.
- Use of a local exhaust system will remove safely all fumes and dust during processing and secondary operations.
- Gloves should be worn when handling hot material.
- Cleaning of fumes, condensates (which may include toxic contaminants), residues and dust from processing and ventilation equipment should also be undertaken in well-ventilated conditions and wearing protective clothing including rubber gloves.
- During the molding operation, it becomes necessary from time to time to not mold heated blanks. This may be as a result of checking oven preheat conditions, or any stoppage in the production process. It is recommended to keep a bucket of water near the preheat oven to cool these blanks once they exit the oven. **DO NOT** stack and allow these blanks to cool in air. Stacking of heated blanks retains heat that may allow for spontaneous ignition to occur. Any material heated and not molded should be cooled immediately by emersion in water or by putting the individual blanks in contact with a cool surface, (i.e. floor). This will stop the heating process and allow for safe disposal of this material by conventional waste procedures used for thermoplastic resin materials.

#### **Handling and Storing:**

- None Known.

#### **Other Precautions:**

- Grinding, sanding, or other forms of mechanical alteration of this product may result in exposure to dusts.

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