



# SAFETY DATA SHEET

## FIBERGLASS REINFORCED THERMOPLASTIC PANELS

### SECTION 1

#### Trade Name and Synonyms

Impact Guard, Puncture Guard and Thermo Guard

#### Chemical Names and Synonyms

Filament glass-fiber reinforced polypropylene based composites. This SDS is for all types, grades and colors of polypropylene based products manufactured by Impact Guard, LLC.

**Manufacturer's Name:** Impact Guard, LLC  
**Plant Address:** 31 Leetsdale Industrial Drive, Leetsdale, PA 15056, USA  
**Emergency Telephone No.:** 724-318-8800

### SECTION 2

#### Hazards Identification

**Summary** Cutting, machining or processing may generate inhalable dust. Breathing dust from from this product may cause a scratchy throat, congestion and slight coughing. Getting dust or fibers on the skin or in the eyes may cause itching, rash or redness.

**Inhalation** Irritation of the upper respiratory tract (scratchy throat), coughing and congestion may occur in extreme exposures.

**Skin** Temporary irritation (itching) or redness may occur.

**Ingestion** This product is not intended to be ingested (eaten). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

**Eyes** Temporary irritation (itching) or redness may occur.

**Ears** Temporary irritation (itching) or redness may occur.

#### Primary Routes of Entry (Exposure)

Eyes, skin, inhalation (breathing dust and fibers) and ingestion.

#### Target Organs

Nose (nasal passages), throat, lungs, skin and eyes.

#### Medical Conditions aggravated by Exposure

Pre-existing chronic respiratory, skin and eye diseases or conditions.

**SECTION 3****Composition/Information on Ingredients**

<b>CAS#</b>	<b>Component</b>	<b>OSHA PEL</b>
9010-79-1	Ethylene-Propylene polymer - less than 75%	None Established
65997-17-3	Glass, oxide - less than 75%	5 mg/m <sup>3</sup> respiratory nuisance dust

**SECTION 4****First Aid Measures**

<b>First Aid: Inhalation</b>	If dust is inhaled in excess of exposure limits referenced in section 8 of this safety data sheet, remove individual to fresh air. Drink water to clear throat and blow nose to remove dust. A saline spray in the nose may help clear any fibers.
<b>First Aid: Skin</b>	Wash gently with soap and water to remove dust and fibers. Alternatively, fibers can be removed from the skin by use of ordinary masking or wrapping tape. Should irritation persist, seek medical attention.
<b>First Aid: Ingestion</b>	Rinse mouth with water to remove dust and fibers and drink plenty of water to help reduce irritation. Should irritation persist, seek medical attention.
<b>First Aid: Eyes</b>	Do not rub or scratch eyes. Dust particles may cause the eye to be scratched. Flush eyes with large amounts of water until irritation subsides. Should irritation persist, seek medical attention.
<b>First Aid: Ears</b>	Wash exposed skin with soap and water. If irritation develops in the inner ear, seek medical attention.
<b>First Aid: Notes to Physician</b>	Dust from the product may cause mechanical irritation of the eyes, skin and upper respiratory tract. Treat symptomatically.

**SECTION 5****Firefighting Measures**

<b>Flash Point</b>	Not applicable.	
<b>Flammable Limits</b>	<b>Upper explosion limit</b>	Not applicable.
	<b>Lower explosion limit</b>	Not applicable.

**SECTION 5 - Continued**

<b>Auto-ignition temperature</b>	Not applicable.
<b>Suitable extinguishing media</b>	Carbon dioxide blanket, Water spray, Dry powder or foam.
<b>Special Fire Fighting Procedures</b>	Full-face self contained breathing apparatus (SCBA) used in positive pressure mode. Should be worn to prevent inhalation of airborne contaminants.
<b>Unusual Fire/Explosive Hazards</b>	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (No <sub>x</sub> ), other hazardous materials and smoke are possible.

**SECTION 6****Accidental Release Measures**

<b>Personal precautions</b>	Wear appropriate personal protection equipment during clean up, such as impervious gloves, boots and coveralls.
<b>Environmental precautions</b>	Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
<b>Methods for cleaning up</b>	Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal.

**SECTION 7****Handling and Storage**

<b>Handling</b>	Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation. Use protective equipment as described in Section 8 of this safety data sheet when handling uncontained material. Handle in accordance with good industrial hygiene and safety practices.
<b>Storage</b>	Keep material dry to avoid moisture absorption and contamination. Material should be kept clean and dry.

**SECTION 8****Exposure Controls / Personal Protection**

<b>Respiratory protection</b>	No personal respiratory protective equipment normally required.
	OSHA has not adopted specific occupational exposure standards for fiber glass. Fiber glass is treated as a nuisance dust and is regulated by OSHA as a particulate not otherwise regulated (total dust) shown in CFR 1910.1000 Table Z-3.

Respirable fraction 5 mg/m<sup>3</sup> - Total dust 15mg/m<sup>3</sup>



**SECTION 8 - Continued**

**Personal Protective Equipment**

- Eyes**            Safety glasses with side shields are recommended to keep dust out of the eyes.
  
- Ears**            Use ear protection (ear plugs, hood or earmuffs) to prevent airborne dust or fibers from entering the ear, if necessary.
  
- Hands**           Protective gloves
  
- Skin**             Long sleeved clothing
  
- Respiratory**    A respirator should be used if ventilation is unavailable or is inadequate for keeping dust and fiber levels below the applicable exposure limits referenced in Section 8 of this SDS. Wear a NIOSH-certified disposable or reusable particulate respirator with an efficiency rating of N95 or higher (per 42 CFR 84) when dust or fiber concentrations exceed the applicable exposure limits. Operations such as sawing, blowing, tear out and spraying may generate airborne fiber concentrations requiring a higher level of respiratory protection. For exposures up to 50 times the established exposure limits use a full-face respirator, rated N99 or higher.
  
- Ventilation**    In fixed manufacturing settings, local exhaust ventilation should be provided at areas of heating or cutting, to remove airborne dust and fibers. General dilution ventilation should be provided as necessary to keep airborne dust and fibers below the applicable exposure limits and guidelines. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of the specific ventilation system should be conducted by a professional engineer.
  
- General**        Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.
  
- Exposure Limits**    There are no known hazardous components above regulatory thresholds in this product.

**SECTION 9**

**Physical and Chemical Properties**

Form	solid
Appearance	sheets/rolls
Color	no pigment
Odor	very faint
Melting Point/range	no determined
Boiling Point	not applicable
Water Solubility	insoluble

Evaporation rate	Not applicable
Specific Gravity	Not determined
Bulk density	Not established
Vapor pressure	Not applicable
Vapor density	Not applicable
pH	Not applicable

**SECTION 10****Stability and Reactivity**

Stability	The product is stable if stored and handled as prescribed
Hazardous Polymerization	Will not occur
Conditions to Avoid	To avoid thermal decomposition, do not over heat.
Incompatible Materials	Strong acids, oxidizing and reducing agents.
Hazardous decomposition Products	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), other hazardous materials and smoke are possible.

**SECTION 11****Toxicological Information****Acute Toxicity**

<b>A: General Product Information</b>	If dust evolves from this product during use, it may cause temporary mechanical irritation or scratchiness of the throat and/or itching of the eyes and skin.
<b>B: Component Analysis - LD50/LC50</b>	No LD50/LC50's are available for this products components.
<b>Component Carcinogenicity</b>	None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH or NTP.
<b>Chronic Toxicity</b>	No chronic health effects are know to be associated with exposure to this product.

**SECTION 12****Ecological Information**

<b>Persistence and Degradability</b>	Not readily biodegradable.
<b>Environmental Toxicity</b>	Chemicals are not readily available as they are bound within the polymer matrix.
<b>Aquatic Toxicity</b>	Chemicals are not readily available as they are bound within the polymer matrix.
<b>Bioaccumulation Potential</b>	Chemicals are not readily available as they are bound within the polymer matrix.
<b>Additional Advice</b>	Not applicable.

**SECTION 13**

**Disposal Considerations**

<b>Product</b>	Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
<b>Contaminated Packaging</b>	Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

**SECTION 14**

**Transportation Information**

This product is not classified as dangerous goods according to international transport regulations.

<b>U.S. DOT Classification</b>	Not regulated for transportation.
<b>ICAO/IATA</b>	Refer to specific regulation.
<b>IMO/IMDG (maritime)</b>	Refer to specific regulation.

**SECTION 15**

**Regulatory Information**

**U.S. Federal Regulations**

<b>A: General Product Information</b>	SARA 311/312: This product is not classified as hazardous under SARA 311/312.
<b>B: Component Analysis</b>	None of this products components are listed under SARA Section (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4).

**State Regulations**

<b>A: General Product Information</b>	None of this products components are known to be regulated. other state regulations may apply. Check individual state regulations.
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Warning: This product contains a substance known to the state of California to cause cancer:  
Methyl Carbamate CAS#598-55-0 Trace

<b>TSCA Status</b>	All components of this product are listed on or exempt from the TSCA Inventory.
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**SECTION 15 - Continued****International Regulations**

**A: General Product Information** These products are considered articles under both U.S. and international product regulations and as such, these products do not require registration or notification on the various country-specific inventories.

**B: Component Analysis - WHMIS IDL**

The following components are identified under the Canadian Hazardous Products Act Ingredient List:

Component	CAS#	Minimum Concentration
Continuous filament glass fiber (generic CAS for glass is 65997-17-3)	Not Available	1% (related to Fibrous glass)

**WHMIS Classification** This is not a WHMIS controlled product. This product has been classified in accordance with hazardous criteria of the Controlled Products Regulations. This SDS contains all the information required by the Controlled Products regulations.

**SECTION 165****Other Information**

The information provided in this Safety Data Sheet is correct to best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.