
Section 1: Product and Company Identification

Product Name: Thermoplastic Composite Coated or Uncoated
Synonyms: Glass reinforced thermoplastic
Product Codes: N/A
Chemical Family: Glass reinforced thermoplastic
Manufacturer: Marvin Composites
Address: 4401 15th Ave NW
PO Box 2712
Fargo, ND 58108
Telephone Number: 701-277-0209
Fax : 701-277-0219
Website: www.marvincomposites.com
Email: MCEHS@marvin.com

Section 2: Hazards Identification

This material is not classified as hazardous according to the OSHA Hazard Communication Standard. There are no health hazards when being exposed to or handling the product in its manufactured form. Special precautions need to be taken when fabricating, cutting, and drilling the product due to the possibility of dust causing skin, eye, and respiratory irritation. Fumes may be released upon heating and the end user must take all necessary precautions to protect employees from exposure. After handling always wash hands thoroughly with soap and water. See Section 8 for personal protection guidelines and maximum exposure limits.

Classification of material: Not Classified

GHS Label Elements:

Signal Word: Warning
GHS Pictogram



GHS08

Muta. 2 H341 Suspected of causing genetic defects
Csrc. 2 H351 Suspected of causing cancer. Route of Exposure: Inhalation
Repr. 2 H361 Suspected of damaging fertility of the unborn child
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure



GHS07

| | |
|-------------------|--|
| Skin Irrit. 2 | H315 Causes skin irritation |
| Eye Irrit. 2 | H3319 Causes serious eye irritation |
| Skin Sens. 1 | H317 May cause an allergic skin reaction |
| Aquatic Chronic 3 | H412 Harmful to aquatic life with long lasting effects |

Precautionary Statements:

| | |
|-------------------|--|
| P261 | Avoid breathing dust |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P264 | Wash thoroughly after handling |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing get medical attention |
| P363 | Wash contaminated clothing before reuse |
| P308+P313 | If exposed or concerned: Get medical attention |
| Skin Sens. 1 | H317 May cause an allergic skin reaction |
| Aquatic Chronic 3 | H412 Harmful to aquatic life with long lasting effects |

Emergency Overview:

Odor, Color, Grade: White color, slight acrylate odor

General Physical Form: Solid

Immediate health, physical, and environmental hazards: The environmental properties of this product present a low environmental hazard. This product, when used under reasonable conditions and in accordance with the Marvin Composites directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

Potential Health Effects:

Eye Contact: May cause eye irritation

Skin Contact: May cause skin irritation

During heating: Vapors may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Thermal Burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction.

During Heating: If parts are subject to enough heat to burn or decompose the material can release a harmful Hydrogen Chloride (HCL) vapors.

Potential Environmental Effects

This substance does not leach metals or other RCRA (Resource Conservation and Recovery Act) listed TCLP (Toxic Characteristic Leaching Procedure) hazardous substances at concentrations that would make the product a hazardous waste.

Section 3: Composition/information on Ingredients

| <u>Ingredient:</u> | <u>CAS -No.</u> |
|--------------------|-----------------|
| PVC | 9002-86-2 |
| Fibrous Glass | 65997-17-3 |
| Calcium Carbonate | 471-34-1 |
| Titanium Dioxide | 13463-67-7 |

This product has not been evaluated as a whole. All ingredients are bound in a polymer matrix and potential for hazardous exposure as shipped is minimal. However, fumes may be released upon heating and the end-user (fabricator) must institute appropriate controls and exercise the necessary precautions (mechanical, ventilation, respirators, etc.) to protect employees from exposure.

(See Sections 7 – Handling and Storage).

Specific composition has been withheld as a trade secret.

Section 4: First Aid Measures

First Aid Procedures

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed. If irritation of the below areas are caused by dust while fabricating, cutting, or drilling product follow these procedures.

Eye: Flush eyes with clean, tepid water for 15 minutes. Obtain medical attention if irritation develops.

Skin: Remove contaminated clothing, brush material off skin, and wash affected area well with soap and water. Launder all exposed clothing well before re-use. Seek medical attention if symptoms persist.

Inhalation: Move out of area into fresh air. Seek medical attention if symptoms persist.

Ingestion: Give 1-2 glasses of milk or water and induce vomiting, seek medical attention if symptoms persist. Never induce vomiting by giving anything by mouth to an unconscious person.

Section 5: Fire Fighting Measures

Flammable Properties

| | |
|----------------------------------|--|
| Autoignition Temperature: | 806°F |
| Flash Point: | <i>Not Applicable</i> |
| Flammable Limits LEL: | <i>Not Applicable</i> |
| Flammable Limits UEL: | <i>Not Applicable</i> |
| FLAMMABLE LIMITS IN AIR: | Combustible. Avoid dust formation; mechanical abrasion can form an explosive dust/air mixture. |

Extinguishing Media

Use fire extinguishers suitable for surrounding materials.

Protection of Fire Fighters

Special Fire Fighting Procedures: Self-contained breathing apparatus for large scale or sustained fires should be used.

Unusual Fire and Explosion Hazards: Avoid ignition sources when cutting the material and/or around dust accumulations.

Hazardous Decomposition Products: carbon monoxide, carbon dioxides, various hydrocarbons and Hydrogen Chloride (HCL).

Note: See 'Stability and Reactivity (Section 10)' for hazardous combustion and thermal decomposition information.

Section 6: Accidental Release Measures

Accidental Release Measures: Use appropriate tools to put the spilled solid in a appropriate waste disposal container.

Section 7: Handling and Storage

Handling

Gloves should be worn when handling material.

Storage

Store away from open flame.

Housekeeping

Avoid dust accumulations at or in excess of 1/32 inch; practice proper housekeeping procedures by utilizing an explosion proof vacuum or natural bristle brush with a non-sparking/non-conductive dust pan. Do not use compressed air for cleaning.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

Fabricating, cutting, drilling, etc. of thermoplastics may produce dust, which should be controlled. Particulate level should not exceed the OSHA (Occupational Safety and Health Administration) standard:

| Ingredient | C.A.S. No. | OSHA PEL | ACGIH TLV |
|-----------------------|------------|---|-----------------------------------|
| PVC | 9002-86-2 | NA | NA |
| Oxide Glass Chemicals | 65997-17-3 | NA | TWA, as dust 10 mg/m ³ |
| Calcium Carbonate | 471-34-1 | As Dust, 15 mg/m ³ (Total) 5 mg/m ³ (Respirable Fraction). | NA |
| Titanium Dioxide | 13463-67-7 | TWA, 15 mg/m ³ | TWA, 10 mg/m ³ |

Engineering Controls

Supply adequate local ventilation when cutting, drilling and grinding

Personal Protection Equipment (PPE)

Eye/Face Protection Use goggles or safety glasses when machining, cutting, drilling, etc. Have eyewashes available.

Skin Protection Wear protective gloves, long pants, long sleeves when machining, cutting, drilling, etc. Wash skin with soap and water after handling. Wash dusty work clothes separately.

Respiratory Protection

May be required if exposure limits are anticipated.

Decomposition Exposure: Exposure to heat from fire, dull cutting tools or other heat sources may cause decomposition of the material. Decomposition of the material can release harmful gases such as those described in the fire and explosion data section. Exposure to these gases can cause respiratory irritation and asthma-like symptoms

Exposure Guidelines

Section 9: Physical and Chemical Properties

| | |
|--------------------------|-----------------------------------|
| Odor, Color, Grade | White color, slight acrylate odor |
| General Physical Form | Solid |
| Autoignition temperature | 806°F |
| Flash Point | Not Applicable |
| Flammable Limits—LEL | Not Applicable |
| Flammable Limits—UEL | Not Applicable |
| Boiling Point | Not Applicable |
| Density | 1.7g/cm ³ |
| Vapor Density | Not Applicable |
| Vapor Pressure | Not Applicable |
| Specific Gravity | Not Applicable |
| pH | Not Applicable |
| Melting Point | 320°F |
| Solubility Water | Nil |
| Evaporation rate | Not Applicable |
| Percent Volatile | Not Applicable |
| Viscosity | Not Applicable |

Section 10: Stability and Reactivity

Stability: Stable.

Materials and Conditions to Avoid: Avoid contact with strong oxidizers or strong mineral acids.
Excessive heat or open flame above 302° F will decompose raw polymer resin.

Hazardous Polymerization: Hazardous Polymerization will not occur.

Hazardous Decomposition or By-Products: Carbon monoxide, Carbon dioxide, Toxic Vapor, Hydrogen Chloride, particulate, at elevated temperatures. Initial decomposition begins at 302° F.

Section 11: Toxicological Information

Toxicological Information: Exposure to dust in excess of PEL (permissible exposure limit over an 8-hour period) may result in skin or upper respiratory tract irritation. Pre-existing skin or respiratory disorders may cause more susceptibility to these effects.

Section 12: Ecological Information

Ecological Information: Not Determined.

Chemical Fate Information: Not Determined.

Section 13: Disposal Considerations

Waste Disposal Method: Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill in compliance with all applicable local, state and federal regulations. Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator.

Since regulations vary, consult appropriate agencies or authorities for applicable regulations before disposal.

Section 14: Transport Information

Not regulated per U.S. DOT, IATA or IMO.

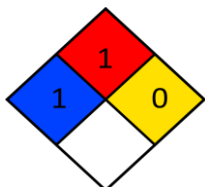
*These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. Marvin Composites, LLC's transportation classifications are based on product formulation, packaging, Marvin Composites, LLC policies and Marvin Composites, LLC's understanding of applicable current regulations. Marvin Composites, LLC does not guarantee the accuracy of this classification information. This information applies only to transportation classification and **not the packaging, labeling, or marking requirements**. The original Marvin Composites, LLC package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.*

Section 15: Regulatory Information

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Section 16: Other Information

NFPA Hazard Classification



The above is accurate to the best of our knowledge. However, since data, safety standards and government regulations are subject to change, and the condition for use or misuse are beyond our control, Marvin Composites makes no warranty, either express or implied, about the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. User should be satisfied that he/she has all current data relevant to his /her particular use.