



Fusion 50 HR, Fusion 50 MR, Fusion 50 FB, Fusion TB

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A

Date of issue: 02/17/2016

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Membrane

Product Name: Fusion 50 HR, Fusion 50 MR, Fusion 50 FB, Fusion 50 TB

Intended Use of the Product

Containment membrane. For professional use only.

Name, Address, and Telephone of the Responsible Party

Manufacturer

The Garland Energy Systems, Inc.

3800 East 91st Street

Cleveland, Ohio 44105-2197

T-800-762-8225

F-216-641-0633

www.garlandco.com

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

This is a voluntary SDS. Under normal use these products are not expected to create any health or environmental hazards. These products meet the requirements of OSHA definition of an "Article" under 29 CFR 1910.1200(c) and do not require a Safety Data Sheet (SDS) as indicated under 29 CFR 1010.1200(b)(6)(v).

Under United States Regulations (29 CFR 1900.1200 – OSHA Hazard Communication Standard) the products listed above are exempt as an article under normal conditions of use. In Canada, these products are considered a manufactured article under the Workplace Hazardous Materials Information System (WHMIS) and are exempt. Under normal conditions of use, the products listed in this SDS are not expected to pose a physical hazard or health risk to humans. These products do not contain any form of asbestos materials. The component exposure limits and other information in this document are provided for abnormal or emergency circumstances such as heating (above 250F), burning, cutting, sanding and/or grinding when there is a potential for exposure to these components.

Classification of the Substance or Mixture

Classification (GHS-US)

Skin Irr. 2 H315

Eye Irr. 2A H319

STOT SE 3 H335

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) :

Warning

Hazard Statements (GHS-US) :

H315 - Causes skin irritation.

H319 – Causes serious eye irritation.

H335 – May cause respiratory irritation.

Precautionary Statements (GHS-US) :

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

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Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this label).
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Polyvinyl Chloride (PVC)	(CAS No) 9002-86-2	85-95	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Plasticizer	Proprietary	5-15	
Polyester Reinforcement	Proprietary	1-5	

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: Respiratory irritation is possible due to processing vapors when heated sufficiently to cause mass melting of the polymer, such as during heat welding.

Skin Contact: Skin irritation is possible due to processing vapors when film is heated sufficiently to cause mass melting of the polymer, such as during heat welding.

Eye Contact: Eye irritation is possible due to processing vapors when film is heated sufficiently to cause mass melting of the polymer, such as during heat welding.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Indication of Immediate Medical Attention and Special Treatment Needed

No data available.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry Chemical, Carbon Dioxide, Water, or Foam.

Special Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Special Hazards Arising from the Substance or Mixture: Wear SCBA & full protective clothing. Spraying water directly into molten plastic may cause the fire to spread. Avoid breathing smoke. Use Pressure Self-Contained Breathing Apparatus.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Sweep up and put into proper disposal container. Keep out of waterways. See section 13.

Protective Equipment: Use appropriate personal protection equipment (PPE).

Methods and Materials for Containment and Cleaning Up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Material should be stored in sprinkler-equipped warehouse. Good housekeeping to prevent dust buildup.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

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Eye/Face Protection: Safety glasses with side-shields.

Skin Protection/Respiratory Protection: SCBA in case of fire. Thermal protective gloves for "hot" processing operations. Wash hands and face after use with soap and water.

Ventilation: Use local exhaust.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance: Gray or Tan

Odor: Slight

Physical State: Solid

pH: No data available

Flash Point: No data available

Auto-ignition Temperature: No data available

Boiling Point/Range: No data available

Freezing Point: No data available

Flammability Limits in Air: No data available

Explosive Properties: No data available

Oxidizing Properties: No data available

Evaporation Rate: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Specific Gravity: No data available

Water Solubility: No data available

Volatiles: No data available

SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable.

Conditions to Avoid: No data available

Incompatible Materials: None

Hazardous Decomposition Products: HCl, CO

Possibility of Hazardous Reactions: None under normal processing

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

Skin Corrosion/Irritation: No data available

Serious Eye Damage/Eye Irritation: No data available

Respiratory or Skin Sensitivity: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: No data available

Reproductive Toxicity: This product is not reported to have any reproductive toxicity effects.

Specific target organ toxicity - single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: This product is not reported to have any aspiration hazard effects.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: If released especially into water, it could impact the ecological environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method/Recommendations: Dispose of in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated

ICAO: Not regulated

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TDG:Not regulated

IATA: Not regulated

MEX:Not regulated

IMDG/IMO: Not regulated

SECTION 15: REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists:

SARA Title III:	
Section 302	None
Section 311/312 (Tier II)	None Known
Section 313 (Form R) See Sec. 3 for any specific amounts	None Known
OSHA:	
- PVC may contain trace levels of Vinyl Chloride Monomer. If ventilation is inadequate, the workplace should be monitored, and if levels exceed the PEL, refer to 29 CFR 1910.1017. - Containers should be labeled: Polyvinyl chloride contains vinyl chloride - vinyl chloride is a cancer agent.	
Canadian Inventory Status: (CEPA)	All components included are on the Domestic Substance Lists.
Canada WHMIS:	None Known
REACH: Chemicals identified by EU as "Substance of Very High Concern (SVHC)" above 0.1% or 1000PPM threshold	
This compound contains a REACH SVHC chemical (s) if listed:	None
PROP 65: Chemicals listed by the State of California known to cause cancer or birth defects.	
This compound contains a Prop 65 listed chemical (s) if listed:	Trace amounts of vinyl chloride
(RoHS) Restriction of Hazardous Substances European Directive 2002/95/EC:	Compliant
Conflict Materials: Restrict all material originating from Democratic Republic of the Congo.	Compliant

SECTION 16: OTHER INFORMATION

Revision Date : 02-17-2016

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.