

Material Safety Data Sheet

Freeman Green Styro Glue

Date of Preparation: January 3, 2007

Revision:

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Freeman Green Styro Glue

Chemical Formula: N/A

CAS Number: N/A

Other Designations: N/A

General Use: N/A

Manufacturer: Freeman Manufacturing and Supply Company, 1101 Moore Road, Avon, OH 44011,
Phone (440)934-1902, FAX (440)934-7200, Hours of Operation 8-5, Emergency Phone Number 800-424-9300.

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Irritant, Flammable

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Methyl Alcohol	67-56-1	60-70

Ingredient	OSHA PEL		ACGIH TLV		Vapor Pressure
	TWA	STEL	TWA	STEL	
Methyl Alcohol	200ppm Skin	250 ppm Skin	200 ppm Skin	250 ppm Skin	96 mm Hg @ 68°F

Section 3 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Green with mild alcohol odor.

Odor Threshold: N/A

Vapor Pressure: 96.0 mm Hg at 68 °F

Vapor Density (Air=1): >1.0

Material VOC: 4.76 LB/GL (570 G/L)

Specific Gravity (H₂O=1, at 4 °C): 0.9

pH: N/A

Water Solubility: 50-75% by volume, est.

Other Solubilities: N/A

Boiling Point: 148°F

Freezing/Melting Point: N/A

Viscosity: N/A

% Volatile: N/A

Evaporation Rate: Slower than ether.

Section 4 - Fire-Fighting Measures

Flash Point: 52 °F(11°C)

Flash Point Method: TCC

Burning Rate: N/A

Autoignition Temperature: N/A

LEL: 6.0% by vol.

UEL: 36.5% by vol.

Flammability Classification: N/A

Extinguishing Media: Foam, alcohol foam, Co₂, dry chemical, water fog, other.

Unusual Fire or Explosion Hazards: Methanol can burn with and invisible flame. Keep containers tightly closed. Isolate from heat, sparks, open flames, and electrical equipment. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces. Empty containers may contain explosive vapors. Do not cut or weld, grind, or drill on or near full or empty containers.

Hazardous Combustion Products: N/A

Fire-Fighting Instructions: Wear full protective clothing and self-contained breathing apparatus. Water spray may be ineffective. Cool closed containers with water to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Do not release runoff from fire control methods to sewers or waterways.



Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 5 - Stability and Reactivity

Stability: Freeman Green Styro Glue is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur under normal conditions.

Chemical Incompatibilities: Strong acids, strong alkalis, oxidizing agents, catalysts, metal that liberate hydrogen: aluminum and zinc.

Conditions to Avoid: Elevated temperatures

Hazardous Decomposition Products: Thermal oxidative decomposition of Freeman Green Styro Glue can produce carbon monoxide, carbon dioxide, formaldehydes, others unknown.

Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: Inhalation, Skin, Ingestion

Target Organs:

Signs and Symptoms of Overexposure:

Inhalation: Irritation of the upper respiratory tract and central nervous system depression, symptoms include: confusion, dizziness, fatigue, headache, loss of balance and coordination, nausea, or unconsciousness, symptoms may be delayed 12-18 hours.

Skin: Redness and cracking. Liquid penetrates shoes and leather causing delayed burns. **Absorption:** Methanol may be absorbed through prolonged contact producing systemic effects.

Eyes: Moderate to severe to severe irritation, tearing, redness, and blurred vision

Ingestion: Swallowing 100-250 ML can be fatal. Swallowing lesser quantities can cause blindness, dizziness, headaches, or nausea. Toxic effects are exerted on the central nervous system, especially the optic nerve, effects can be delayed 12-18 hours.

Acute Effects

Inhalation: Dizziness, headache, loss of balance and coordination, nausea, unconsciousness, death

Eye: Moderate to severe irritation, blurred vision, or burns.

Skin: Defatting, redness, and dermatitis.

Ingestion: Blindness or death

Carcinogenicity: IARC, NTP, and OSHA do not list any component as carcinogenic.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing breathing difficulties and other respiratory disorders, headaches, dermatitis and eye disorders.

Chronic Effects: Repeated overexposure can cause central nervous system damage, blindness, damage to the pancreas, or death.

See NOTICE in Section 9 concerning Solvents

Emergency and First Aid Procedures

Inhalation: Move person to fresh air. If breathing stops, give artificial respiration, administer oxygen if available. Get immediate medical assistance.

Eye Contact: Immediately flush eyes with cool water for 15 minutes, get immediate medical assistance

Skin Contact: Wash with soap and water, remove contaminated clothing, wash clothing before reuse, consult doctor if necessary.

Ingestion: Immediately induce vomiting by giving 2 glasses of water and sticking finger down throat. Then have patient drink milk or sodium bicarbonate solution. Get immediate medical assistance.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: N/A

Special Precautions/Procedures: N/A

Section 7 - Spill, Leak, and Disposal Procedures

Spill /Leak Procedures: Remove all sources of ignition, ventilate areas, avoid breathing vapors, contain spill and remove with inert absorbent, use non-sparking tools.

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

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Disposal: Dispose of in accordance with local, state, and federal regulations. Do not incinerate closed containers, a violent explosion could occur. Use only a licensed disposal firm/facility. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements: N/A

Container Cleaning and Disposal: N/A

Ecological Information: N/A

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ), lb (kg)

SARA 311/312 Codes:

SARA Toxic Chemical (40 CFR 372.65): See Section 2.

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance (29CFR 1910.)

State Regulations: N/A

Regulatory Information:

TSCA Inventory Status: All ingredients listed on TSCA Inventory.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: N/A

Ventilation: Provide general clean air dilution or local exhaust ventilation to keep the concentrations of fumes below lower explosive limits and exposure limits. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Wear a properly fitted, NIOSH/MSHA approved, chemical/ mechanical respirator to keep worker exposure below the time weighted threshold limit value. In confined or poorly ventilated areas, wear a NIOSH/MSHA approved, air line respirator or hood. Consult your local safety equipment supplier for approved respirators and fitting instructions. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). **Do not wear contact lenses.**

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Special Precautions and Comments

Handling Precautions: Do not puncture or reuse containers. See OSHA 1910.106 for proper storage conditions. Prohibit smoking in areas this product is used. Keep out of reach of children. For industrial use only.

Storage Requirements: Do not store above 100°F. Ground containers when pouring or transferring. Keep away from heat, spark, and flames. Store containers upright to prevent leakage.

Special Precautions: This product cannot be made non-poisonous. See the national electrical code for electrical equipment requirements. Solvent vapors are heavier than air and travel near ground level. They also accumulate in low areas and pits.

***Notice:** Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. **Do not use until all safety precautions have been read and understood.**

DOT Transportation Data (49 CFR 172.101):

Shipping Name:	Packaging Authorizations	Quantity Limitations
Shipping Symbols:	a) Exceptions:	a) Passenger, Aircraft, or Railcar:
Hazard Class:	b) Non-bulk Packaging:	b) Cargo Aircraft Only:
ID No.:	c) Bulk Packaging:	
Packing Group:		Vessel Stowage Requirements
Label:		a) Vessel Stowage:
Special Provisions (172.102):		b) Other:

Prepared By:
Revision Notes:

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