

Material Safety Data Sheet

PolyGard, Inc - PGAR Prod # 1720, 1730, H251728, H251738 Hi Bond White PG Pigment Paste	IDENTITY or Product Code
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Section I

Manufacturer's Name: PolyGard, Inc.	Emergency Telephone Number 800-424-9300 CHEMTREC
Address: 5010 N. Coolidge Ave., Tampa, FL. 33614	Telephone Number for Information 813-877-7591
Date Prepared	5-1-2004

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)) Resin Solution, Gel Coat	OSHA PEL 8hr TWA	Other Limit - Industry voluntary standards	ACGIH TLV	%
Styrene Monomer Inhibited CAS# 100-42-5 ***	100 PPM	50 PPM	20 PPM	3.33 %

*** Potential SARA 313 Reporting Requirements.

NA – not applicable, NR - not reviewed, NE – not established

Section III - Physical/Chemical Characteristics

Boiling Point:	295 ° F	Specific Gravity (H₂O = 1)	1.13-1.15
Vapor Pressure (mm Hg.)	6.12	Melting Point	NR
Vapor Density (AIR = 1)	3.6	Evaporation Rate (Butyl Acetate = 1)	<1
Solubility in Water:		Negligible	
Appearance and Odor:		Dense liquid, tinted to match color name, pungent odor	

Section IV - Fire and Explosion Hazard Data

HMIS Rating	Health Hazard	2*	*chronic health hazard	
	Fire Hazard	3		
	Reactivity	1		
Flash Point (Method Used):	88 ° F Setaflash Closed Cup	Flammable Limits:	LEL: 1.1	UEL: 7
Extinguishing Media				
Dry Chemical, Carbon Dioxide, Foam.				
Special Fire Fighting Procedures				
Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the positive pressure demand mode. Vapors can flow along surfaces to distant ignition sources and flash back. Fight fire from maximum distance. To prevent accumulation of vapors after extinguishment, stop leak before fighting fire. Water may be				

used to keep other containers cool or protect other materials or structures. Water may be ineffective for extinguishment. If leak has not ignited, use water spray to disperse vapors.
Unusual Fire and Explosion Hazards
When heated sealed containers may build up pressure and explode.

Section V - Reactivity Data

Stability under normal conditions:	Stable	x
	Unstable	
Conditions to Avoid		
Heat, flames, direct sun, hot metal surfaces and ignition sources. Incompatibilities.		
Incompatibility (Materials to Avoid)		
Oxidizing materials, Peroxides, Metal Salts, Copper		
Hazardous Decomposition or Byproducts		
Thermal decomposition may produce various hydrocarbons and irritating, acrid odors.		
Hazardous Polymerization:	May Occur	X
	Will Not Occur	
Conditions to Avoid		
Temperatures above 150 ° F, contamination with incompatibles		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? YES	Eyes? YES	Skin? YES	Ingestion? YES
Health Hazards (Acute and Chronic):				
Acute: EYE- Irritation, redness, tearing, stinging, pain, swelling. SKIN- May cause irritation, pain or redness. INHALATION- May cause lung irritation, dizziness or feeling of drunkenness, weakness, fatigue, nausea, headache, central nervous system depression, pulmonary edema. INGESTION- Harmful if swallowed. Single dose oral toxicity is low. Swallowing larger amounts may cause gastrointestinal disturbances, pain, discomfort, or symptoms similar to inhalation. Styrene in this mixture may be fatal if liquid is aspirated into the lungs.				
Chronic: EYE- Irritation, redness, tearing, stinging, pain, swelling. SKIN- May cause defatting, drying, irritation. INHALATION- Respiratory damage. INGESTION- Respiratory, liver or kidney damage. Central nervous system and hearing effects.				
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?	
	NR	Group 2B – (Possible cancer causing to humans)	No	
Signs and Symptoms of Exposure:				
Acute: EYE- Irritation, redness, tearing, stinging, pain, swelling. SKIN- May cause irritation, pain or redness. INHALATION- May cause lung irritation, dizziness or feeling of drunkenness, weakness, fatigue, nausea, headache, central nervous system depression, pulmonary edema. INGESTION- May cause gastrointestinal disturbances, pain, discomfort, or symptoms similar to inhalation. Styrene in this mixture may be fatal if liquid is aspirated into the lungs.				
Chronic: Over exposure to this material may cause respiratory damage, central nervous system depression, and pulmonary edema.				

Effects on hearing. May be fatal if liquid is aspirated into the lungs.
Medical Conditions Generally Aggravated by Exposure:
Skin, hearing, respiratory or central nervous system disorders.
Emergency and First Aid Procedures:
EYE- Flush with water for at least 15 minutes. Get medical attention immediately.
SKIN- Flush with water or soapy water for at least 15 minutes while removing contaminated clothing, shoes. Get medical attention if irritation develops or persists. Thoroughly wash clothes and shoes before reuse.
INHALATION- Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Get medical attention immediately.
INGESTION- DO NOT INDUCE VOMITING unless directed by medical personnel. Give 2 glasses of water or milk to drink. Do not give anything by mouth to an unconscious person. If the victim is drowsy or unconscious, place on left side with head down. Get medical attention immediately.

Section VII - Precautions for Safe Handling and Use

Single Word: Warning

Steps to be taken in case material is Released or Spilled
Ventilate areas around leak or spill. Remove all sources of heat and ignition. Use only non-sparking tools and equipment. Stop/contain the release if it can be done safely. Isolate the hazard area. Use an inert absorbent material to absorb spilled liquid. Place material in a hazardous waste container and use a licensed disposal service for removal. CERCLA and other government regulations may require reporting of spill or released above threshold quantities.
Waste Disposal Method
This product contains one or more chemicals that exhibit the characteristic of ignitability and must be handled as a hazardous waste, waste code D001. Empty container may contain vapors and residue that would classify them as hazardous waste. All hazardous waste must be handled in accordance with Federal, State and local laws.
Precautions to be taken in Handling
Use in a cool, dry, well ventilated area. Keep containers tightly closed when not in use. Bond and Ground containers during material transfer. Do not cut, puncture, grind, solder, drill or weld near the container. Open containers slowly. Empty containers may contain residue and/or vapors that may be harmful. Do not transfer into an unlabeled container. Do not reuse container. Do not use with incompatible materials.
Precautions to be taken in Storing
Store in a cool, dry place away from incompatible materials, heat sources or direct sunlight. Keep containers tightly closed and well ventilated. Post "No Smoking or Open Flame" signs. Store only in approved containers.
Other Precautions
NA

Section VIII - Control Measures

Personal Protective Equipment:		
Respiratory Protection (<i>Specify Type</i>)		
When exposure conditions are within allowable limits, none needed. When exposure is not adequately controlled but conditions are known, use a half-face respirator approved for organic vapors. When conditions are not known, use a full-face organic vapor, NIOSH approved positive pressure respirator.		
Ventilation:	Local Exhaust: Yes	Special: NA
	Mechanical (General): YES	Other: NA
Protective Gloves		Eye Protection
Chemical resistant gloves		Goggles, glasses and eye wash station
Other Protective Clothing or Equipment		
Apron and Lab Coat or other impervious clothing, emergency shower		

Work/Hygienic Practices
Class B, ABC fire extinguisher. Where explosive mixtures may be present, electrical systems safe for such conditions must be used. Provide adequate ventilation to maintain conditions below permissible exposure limits, vent hood.

Section IX - Special Precautions

Precautions to be taken in Handling and Storing: Use protective equipment, avoid sources of ignition
Other Precautions: NA

Section X - Regulatory Information

US DOT Proper Shipping Name	Resin Solution, flammable
Hazard Class or Division (s)	3, Flammable Liquid
Packing Group	III
UN #	1866
ERG #	127
SARA 313 & TRI Regulated Ingredients	YES - See section II
313 Hazard Categories	Fire, Reactive, Acute, Chronic

*For regulatory compliance, users should always consult the most current regulatory publications to ensure accuracy.

Section XI - Disclaimer

This Material Safety Data Sheet and the information it contains has been offered in good faith as accurate. The information contained in the document is provided from sources outside our company. We believe the information to be correct but cannot guaranty accuracy or completeness. It is the user's obligation to evaluate this Material Safety Data Sheet as a reference and to use this product in compliance with all applicable Federal, State and Local regulations, No statements made in this Material Safety Data Sheet shall be construed as permission or recommendation to use this product in a manner that may infringe any existing patents. No warranty is made, either expressed or implied.

Reviewed by : Donna Allen

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