

Material Safety Data Sheet

1. Product and Company Identification

Product name	Poly Wall -Port & Surface 5/30 Part A
Chemical family:	Modified Epoxy resin (Thermosetting Resin)
Product use:	Refer to the product technical data sheets
Supplier/Manufacturer:	Polyguard Products, Inc. 5385 Freitag Drive #1 Menomonie, WI Tel: (715) 231-4255
In case of emergency	CHEMTREC, US 1-800-424-9300 International 1-703-527-3887

2. Hazards identification

Physical state:	Liquid
Odor:	Mild odor
Emergency Overview:	Sensitizer Decomposition and combustion products may be toxic. Overexposure may lead to irritation, sensitization, and dermatitis.
Potential acute health effects	
Inhalation:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards.
Skin:	Moderate irritation of skin may occur with contact. Existing eczema, allergy and skin conditions may be aggravated by exposure.
Eyes:	May cause mild irritation or inflammation. Symptoms include watering or discomfort of eyes.
Potential chronic health effects	
Chronic effects:	Irritation, sensitization and dermatitis may occur.
Carcinogenicity:	None of the components are listed as carcinogens by NTP, IARC or OSHA.
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards
Target organs:	Skin
Over-exposure signs/symptoms:	
Inhalation:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards
Skin:	Prolonged or repeated exposure can cause skin irritation, reddening, dermatitis, and in some individuals, sensitization.
Eyes:	Mild irritation and redness.
Medical conditions aggravated by overexposure:	Pre-existing allergies, eczema, or skin conditions.
See toxicological information (Section 11)	

3. Composition/information on ingredients

United States			
Name	CAS number	%	
Bisphenol a/Diglycidyl Ether resin	25068-38-6	30- 90%	
Talc	14807-96-6	0-50 %	
Fumed Silica	67762-90-7	0-5 %	

Talc and fumed silica are not in its respirable form and are a constituent of the mixture.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact:	Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Skin contact:	Wash off in flowing water or shower. Remove and wash contaminated clothing before reuse.
Inhalation:	Remove to fresh air. If not breathing give artificial respirations. If breathing is difficult, oxygen should be administered by qualified personal. Call a physician or transport to a medical facility immediately.
Ingestion:	If swallowed, give large quantities of water. Do not induce vomiting unless directed to do so by medical personal. If gastrointestinal symptoms develop, consult medical personnel. Never give anything by mouth to an unconscious person.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth to mouth resuscitation.

5. Fire-fighting measures

Flammability of the product:	No specific fire or explosion hazard.
Extinguishing media:	
Suitable	Dry chemical, carbon dioxide, foam and water spray.
Not suitable	None known
Hazardous thermal decomposition products	Decomposition products may include the following materials: Acrid smoke & fumes
Special protective equipment:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in a positive pressure mode.

6. Accidental release measures

Personal precautions:	No actions shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personal from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Small Spills:	Wipe up with rag.
Large Spills:	Use absorbent materials.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in your eyes or on your skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product and can be hazardous. Do not reuse containers.

Storage

Store in original container protected from direct sunlight in a dry cool and well ventilated area away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready to use. Do not store in unlabeled containers.

8. Exposure controls/personal protection

Product name	United States Exposure limits
Talc	ACGIH TLV TWA: 2 mg/m ³ 8 hour(s) resp. NIOSH REL TWA: 2 mg/m ³ 8 hrs resp. OSHA PEL TWA: 20 mmpcf - resp.
Silica	ACGIH TLV TWA: 10 mg/m ³ 8 hour(s) resp OSHA PEL TWA: 6 mg/m ³ - resp.

Talc and Silica are not in its respirable form and is a constituent of the mixture.
Consult local authorities for acceptable exposure limits.

Recommended monitoring procedure:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protection.

Engineering measures:

Use only with adequate ventilation. General /local ventilation typically controls exposure levels very adequately.

Hygiene measure:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the work station location.

Personal protection

Eyes:

Chemical splash goggles or safety glasses.

Skin:

Overall buttoned at the neck and wrist.

Respiratory:

Supplied air, full face positive respirator or continuous flow respirator, or a supplied air hood is required when airborne concentrations are unknown or exceed threshold values.

Hands:

Chemical resistant gloves- Rubber or polyethylene. Use of barrier cream is recommended.

9. Physical and chemical properties

Physical state:	White liquid
Flash point	> 200 F (93.3 C) (method TCC)
Boiling Point:	> 392 F (> 200 C)
Vapor Pressure:	> 1 TORR @ 180 F
Vapor Density:	> 1 (air =1)
Evaporation rate:	<1 (butyl acetate =1)
Specific gravity:	1.32 (water =1)
Density:	11.0 lb/gal
Solubility:	Insoluble in water

10. Stability and reactivity

Stability:	Stable
Hazardous polymerization:	Not likely to occur
Conditions to avoid:	Elevated temperatures
Materials to avoid:	Reactive or incompatible with the following materials: Strong oxidizers, strong acids or bases in bulk.
Hazardous decomposition:	Carbon dioxide, carbon monoxide, aldehydes and other organics.

11. Toxicological information

Acute Toxicity

Product/ingredient name	Species	Dose	Result	Exposure
Bisphenol a/Diglycidyl	Rat	>2000 mg/kg	LD50 Oral	-
Ether resin	Rabbit	>2000 mg/kg	LD50 Dermal	Mild irritation

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Skin Irritating to skin.

Eyes Irritating to eyes.

12. Ecological information

Environmental effects: No known significant or critical hazards.

13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to SECTION 7; Handling and Storage and Section 8: Exposure Control / Personal Protection for additional handling information and protection of employees.

14. Transportation information

AERG: Not applicable
Regulatory Information:
DOT/TDG/IMDG/IATA Not regulated

15. Regulatory information

United States

U.S. Federal regulations:

United States inventory (TSCA 8b): All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substance: No products were found.
SARA 302/304/311/312 hazardous chemicals: Bisphenol a/Diglycidyl Ether resin- immediate (acute) health hazard
SARA 311/312 MSDS Distribution- Chemical inventory –hazard identification
SARA 313 Toxic Chemicals: No products were found

California Prop. 65

The product may contain trace amounts of some chemicals considered by the state of California to be carcinogens or reproductive toxins

16. Other information

Label Requirements

Hazardous Material

Information System (USA)

HAZARD RATING

Health - 2
Fire hazard- 1
Physical hazard 1
Personal Protection B

4- Extreme
3- Serious
2- Moderate
1- Slight
0- Minimal

See section 8 for more detailed information of personal protection.

National Fire Protection

Association (USA)

Health - 2
Flammability- 1
Instability 1
Special

Date of Issue

8/5/11

Version

2

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Material Safety Data Sheet

1. Product and Company Identification

Product name Poly Wall Port & Surface 5/30 Part B
Chemical family: Modified Polymercaptan
Product use: Epoxy Hardener
Supplier/Manufacturer: Polyguard Products, Inc.
5385 Freitag Drive #1
Menomonie, WI
Tel: (715) 231-4255
In case of emergency CHEMTREC, US 1-800-424-9300 International 1-703-527-3887

2. Hazards identification

Physical state: Paste
Odor: Skunk like odor
Emergency Overview: Sensitizer
Material will cause burns to skin and eyes. High concentrations of vapor can cause irritation of respiratory tract, nausea, and vomiting. Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses. Decomposition and combustion products may be toxic.

Potential acute health effects
Inhalation: High concentrations of vapor can cause irritation of respiratory tract, nausea, and vomiting.
Ingestion: No known significant effects or critical hazards.
Skin: Will cause burns to skin.
Eyes: Will cause burns to eyes.

Potential chronic health effects
Chronic effects: Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses.
Carcinogenicity: None of the components are listed as carcinogens by NTP, IARC or OSHA.
Mutagenicity: No known significant effects or critical hazards
Teratogenicity: No known significant effects or critical hazards
Developmental effects: No known significant effects or critical hazards
Fertility effects: No known significant effects or critical hazards
Target organs: Skin
Over-exposure signs/symptoms:
Inhalation: No known significant effects or critical hazards
Ingestion: No known significant effects or critical hazards
Skin: Prolonged or repeated exposure can cause skin irritation, reddening, dermatitis, and in some individuals, sensitization.
Eyes: Mild irritation and redness.
Medical conditions aggravated by overexposure: Pre-existing allergies, eczema, or skin conditions.
See toxicological information (Section 11)

3. Composition/information on ingredients

United States			
Name	CAS number	%	
Proprietary Polymercaptans	Proprietary	20-40 %	
Talc	14807-96-6	60-80 %	
Fumed Silica	67762-90-7	0-5 %	

Talc and fumed silica are not in its respirable form and are a constituent of the mixture.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact:	Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Skin contact:	Wash off in flowing water or shower. Remove contaminated clothing and dispose of.
Inhalation:	Remove to fresh air. If not breathing give artificial respirations. If breathing is difficult, oxygen should be administered by qualified personal. Call a physician or transport to a medical facility immediately.
Ingestion:	If swallowed, give large quantities of water. Do not induce vomiting unless directed to do so by medical personal. If gastrointestinal symptoms develop, consult medical personnel. Never give anything by mouth to an unconscious person.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth to mouth resuscitation.

5. Fire-fighting measures

Flammability of the product:	No specific fire or explosion hazard.
Extinguishing media:	
Suitable	Dry chemical, carbon dioxide, or foam.
Not suitable	None known
Hazardous thermal decomposition products	Decomposition products may include the following materials: Acrid smoke & fumes
Special protective equipment:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in a positive pressure mode.

6. Accidental release measures

Personal precautions:	No actions shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personal from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Spills:	Use absorbent materials or scrape up. Collect in proper waste containers and dispose of properly.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in your eyes or on your skin or clothing. Do not ingest. Use only with adequate ventilation. Avoid breathing vapors of heated material. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product and can be hazardous. Do not reuse containers.

Storage

Store in original container protected from direct sunlight in a dry cool and well ventilated area away from incompatible materials (see section 10) and food and drink. Keep away from flames and other sources of ignition. Keep container tightly closed and sealed until ready to use. Do not store in unlabeled containers.

8. Exposure controls/personal protection

Product name	United States Exposure limits
Talc	ACGIH TLV TWA: 2 mg/m ³ 8 hour(s) resp. NIOSH REL TWA: 2 mg/m ³ 8 hrs resp. OSHA PEL TWA: 20 mmpcf - resp.
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Recommended monitoring procedure:

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Engineering measures:

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Hygiene measure:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the work station location.

Personal protection

Eyes:

Chemical splash goggles or safety glasses.

Skin:

Overall buttoned at the neck and wrist.

Respiratory:

Supplied air, full face positive respirator or continuous flow respirator, or a supplied air hood is required when airborne concentrations are unknown or exceed threshold values.

Hands:

Chemical resistant gloves- Rubber or impervious gloves.

9. Physical and chemical properties

Physical state:	Black Paste
Flash point	185 F (85 C) (method PMCC)
Boiling Point:	Not determined
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Evaporation rate:	<1 (butyl acetate =1)
Specific gravity:	1.91 (water =1)
Density:	15.91 lb/gal
Solubility:	Soluble in water

10. Stability and reactivity

Stability:	Stable
Hazardous polymerization:	Not likely to occur
Conditions to avoid:	Mixing with oxidizers or epoxy resins in quantities over 1 pound.
Materials to avoid:	Reactive or incompatible with the following materials: Strong oxidizers and acids.
Hazardous decomposition:	Carbon dioxide, carbon monoxide and nitrogen oxides.

11. Toxicological information

Acute Toxicity

Product/ingredient name	Species	Dose	Result	Exposure
Polyamine Resin	Rat	>5 CC/kg	LD50 Oral	-

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Skin Irritating to skin.

Eyes Irritating to eyes.

12. Ecological information

Environmental effects: No known significant or critical hazards.

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Waste disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

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SARA 302/304/311/312 hazardous chemicals: No products found
SARA 311/312 MSDS Distribution- Chemical inventory –hazard identification
SARA 313 Toxic Chemicals: No products were found.

California Prop. 65

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16. Other information

Label Requirements

Hazardous Material

Information System (USA)

HAZARD RATING

Health - 2
Fire hazard- 1
Physical hazard 1
Personal Protection B

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3- Serious
2- Moderate
1- Slight
0- Minimal
See section 8 for more detailed information of personal protection.

National Fire Protection Association (USA)

Health - 2
Flammability- 1
Instability 1
Special

Date of Issue Version

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