

SOLARGARD SEAM SEALER WHITE 5 GAL

Version 2.

REVISION DATE: 06/29/2009

Print Date 07/07/2009

SECTION 1 - PRODUCT IDENTIFICATION

Trade name

: SOLARGARD SEAM SEALER WHITE 5 GAL

Product code

: 1511700005P

COMPANY

: Republic Powdered Metals

2628 Pearl Road Medina OH 44256

Telephone

: (800) 551-7081

Emergency Phone:

: 1-800-551-7081

After Hours: Chemtrec 1-800-424-9300

Product use

: Sealant

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

White. Non-sag gunnable paste. May cause slight irritation to the respiratory system. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause allergic respiratory sensitization. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

Acute Potential Health Effects/ Routes of Entry

Inhalation

: May cause slight irritation to the respiratory system. May cause nausea, headaches, and

dizziness. May cause drowsiness, weakness, and fatigue. May cause allergic respiratory

sensitization.

Eyes

Direct contact may cause mild irritation.

Ingestion

May cause gastrointestinal irritation, nausea, and vomiting.

Skin

May cause sensitization resulting in irritation, itching and redness.

Aggravated Medical Conditions

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Overexposure may cause dermatitis, asthma, skin and respiratory sensitization and decreased lung function. Prolonged or repeated exposure to xylene may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney damage. Xylene overexposure may affect fetal development. Prolonged or repeated exposure to butyl benzyl phthalate may cause reduced body weights and adverse effects on the liver, kidney, spleen, pancreas, and reproductive organs. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Fillers are encapsulated and not expected to be released from product under normal conditions of use. Prolonged or repeated exposure to mineral spirits (petroleum naphtha or stoddard solvent) may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, and adverse liver, kidney, and lung effects.



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Target Organs: Skin, Eye, Ingestion, Lung

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Polyurethane Polymer	NJTSRN# 51721300-5358P	15.0 - 40.0
Butyl benzyl phthalate	85-68-7	15.0 - 40.0
Calcium Carbonate (Limestone)	1317-65-3	15.0 - 40.0
Polyvinyl chloride	9002-86-2	15.0 - 40.0
Stoddard solvent (Mineral Spirits)	8052-41-3	3.0 - 7.0
Titanium dioxide	13463-67-7	1.0 - 5.0
Calcium oxide	1305-78-8	1.0 - 5.0
Xylene	1330-20-7	1.0 - 5.0
Diisodecyl phthalate	26761-40-0	1.0 ~ 5.0
	100-41-4	<1.0
Ethylbenzene	4098-71-9	-<1.0
Isophorone Diisocyanate Crystalline Silica (Quartz)/ Silica San	14808-60-7	- <0.1

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation

: Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

Eye contact

Flush with water for at least 15 minutes while holding eye lids apart. Get medical

attention immediately.

Skin contact

: Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Ingestion

Do not induce vomiting unless advised by a physician. Call nearest Poison Control

Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point

Not available.

Method

Not available.

Lower explosion limit

Not available.

Upper explosion limit

Not available.

Autoignition temperature

Not available.

Extinguishing media

If water fog is ineffective, use carbon dioxide, dry chemical or foam.

Hazardous combustion

Carbon monoxide and carbon dioxide can form. Hydrocyanic acid and

products

nitrogen oxides can form.



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Protective equipment for

firefighters

Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Scrape up and transfer to appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion and contact with skin, eyes and clothing. Preferably use entire contents in one continuous work session. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling Do not store or use near food. Keep container closed when not in use. Since emptied containers retain product residue and vapor, observe precautions even after container is emptied. Store under dry warehouse conditions away from heat and all ignition sources.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

Respiratory protection

Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's

directions for respirator use.

Hand protection

Use suitable impervious nitrile or neoprene gloves and protective apparel to

reduce exposure.

Eye protection

Wear appropriate eye protection. Use safety glasses if eye contact is likely.

Skin and body protection

Use disposable or impervious clothing if work clothing contamination is likely.

Remove and wash contaminated clothing before reuse.

Protective measures

Use professional judgment in the selection, care, and use.

Engineering measures

Use general ventilation and/ or local exhaust to reduce the airborne

contaminant concentration below the exposure limit listed in the MSDS

Exposure Limits

Chemical Name	CAS Number	Regulation	<u>Limit</u>	<u>Form</u>
Calcium Carbonate (Limestone)	1317-65-3	OSHA PEL: OSHA PEL: ACGIH TWA: ACGIH TWA: OSHA TWA: OSHA TWA:	5 mg/m3 15 mg/m3 3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Total dust. Respirable particles. Inhalable particles. Total dust. Respirable fraction.



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Chemical Name	CAS Number	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
Polyvinyl chloride	9002-86-2	ACGIH TWA:	1 mg/m3	Respirable fraction.
,		OSHA PEL:	5 mg/m3	Respirable fraction.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.
		OSHA TWA:	15 mg/m3	Total dust.
Stoddard solvent (Mineral	8052-41-3	ACGIH TWA:	100 ppm	
Spirits)		OSHA PEL:	2,900 mg/m3	
Titanium dioxide	13463-67-7	ACGIH TWA:	10 mg/m3	
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.
Calcium oxide	1305-78-8	ACGIH TWA:	2 mg/m3	
		OSHA PEL:	5 mg/m3	
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.
Xylene	1330-20-7	ACGIH TWA:	100 ppm	
•		ACGIH STEL:	150 ppm	
		OSHA PEL:	435 mg/m3	
Ethylbenzene	100-41-4	ACGIH TWA:	100 ppm	
•		ACGIH STEL:	125 ppm	
		OSHA PEL:	435 mg/m3	
Isophorone Diisocyanate	4098-71-9	ACGIH TWA:	0.005 ppm	
Crystalline Silica	14808-60-7	OSHA TWA:	0.1 mg/m3	Respirable.
(Quartz)/ Silica Sand		OSHA TWA:	0.3 mg/m3	Total dust.
(OSHA PEL:	15 mg/m3	Total dust.
		OSHA PEL:	5 mg/m3	Respirable fraction.
		ACGIH TWA:	0.025 mg/m3	Respirable fraction.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form

: Non-sag gunnable paste

Color

; White

Odor

: Petroleum Solvent

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Vapour pressure

: Not available.

: Not available.

Vapor density

Freezing point

: Heavier than air

Melting point/range

: Not available.

An RPM Company

: Not available.

4/8

1511700005P



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Boiling point/range

: Not available.

Water solubility

: Insoluble

Specific Gravity

: 1.288

% Volatile Weight

: 7%

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid

: Amines.Water or moisture and oxidizing agents.Alcohols.Strong

acids.Strong bases.

Stability

: Material is stable under normal storage, handling, and use.

Hazardous polymerization

: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Butyl benzyl phthalate, CAS-No.: 85-68-7

Acute oral toxicity (LD-50 oral)

13,500 mg/kg (Rat)

Xylene, CAS-No.: 1330-20-7

Acute oral toxicity (LD-50 oral)

4,300 mg/kg (Rat) 1,590 mg/kg (Mouse) 6,670 mg/kg (Rat) 3,523 - 8,600 mg/kg (Rat) 5,627 mg/kg (Mouse)

Acute inhalation toxicity (LC-50)

Rat) 3,523 - 8,600 mg/kg (Rat) 5,627 mg/kg (Mouse) 6,350 mg/l for 4 h (Rat) 3,907 mg/l for 6 h (Mouse) 8,000

mg/l for 4 h (Rat)

Ethylbenzene, CAS-No. 100-41-4

Acute oral toxicity (LD-50 oral)

5,460 mg/kg (Rat) 3,500 mg/kg (Rat)

Acute dermal toxicity (LD-50 dermal)

17,800 mg/kg (Rabbit)

Isophorone Diisocyanate, CAS-No.: 4098-71-9

Acute oral toxicity (LD-50 oral)

2,500 mg/kg (Mouse) 1,000 mg/kg (Rat)

Acute inhalation toxicity (LC-50)

0.033 mg/l for 4 h (Rat) 0.123 mg/l for 4 h (Rat)

Acute dermal toxicity (LD-50 dermal)

1,060 mg/kg (Rat)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method

Waste not regulated under RCRA. Dispose of in compliance with state and local

regulations.



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SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:

NOT REGULATED

SECTION 15 - REGULATORY INFORMATION

North American Inventories:

All components are listed or exempt from the TSCA inventory. This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

U.S. Federal Regulations:

SARA 313 Components

: Xylene

1330-20-7

Ethylbenzene

100-41-4

SARA 311/312 Hazards

: Acute Health Hazard

OSHA Hazardous Components:

85-68-7 Butyl benzyl phthalate 1317-65-3 Calcium Carbonate (Limestone) 9002-86-2 Polyvinyl chloride 8052-41-3 Stoddard solvent (Mineral Spirits) 13463-67-7 Titanium dioxide Calcium oxide 1305-78-8 1330-20-7 **Xylene** 26761-40-0 Diisodecyl phthalate 100-41-4 Ethylbenzene 4098-71-9 Isophorone Diisocyanate Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

OSHA Status: Considered

; Irritant

hazardous based on the

following criteria:

OSHA Flammability

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: Not Regulated

Regulatory VOC (less water and

: 103 g/l

exempt solvent)

VOC Method 310

: 7%

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

Butyl benzyl phthalate

85-68-7

U.S. State Regulations:

MASS RTK Components

: Butyl benzyl phthalate

85-68-7

Calcium Carbonate (Limestone)

1317-65-3



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Stoddard solvent (Mineral Spirits)
Titanium dioxide
Calcium oxide
Xylene
Isophorone Diisocyanate
Crystalline Silica (Quartz)/ Silica Sand
S052-41-3
13463-67-7
1305-78-8
1330-20-7
4098-71-9
14808-60-7

Penn RTK Components

NJTSRN# 51721300-5358P Polyurethane Polymer Butyl benzyl phthalate 85-68-7 Calcium Carbonate (Limestone) 1317-65-3 9002-86-2 Polyvinyl chloride Stoddard solvent (Mineral Spirits) 8052-41-3 13463-67-7 Titanium dioxide 1305-78-8 Calcium oxide 1330-20-7 **Xylene** Diisodecyl phthalate 26761-40-0

NJ RTK Components

NJTSRN# 51721300-5358P Polyurethane Polymer Butyl benzyl phthalate 85-68-7 1317-65-3 Calcium Carbonate (Limestone) 9002-86-2 Polyvinyl chloride Stoddard solvent (Mineral Spirits) 8052-41-3 13463-67-7 Titanium dioxide 1305-78-8 Calcium oxide 1330-20-7 **Xylene** 26761-40-0 Diisodecyl phthalate

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

85-68-7 26761-40-0 100-41-4 68515-49-1 Butyl benzyl phthalate Diisodecyl phthalate Ethylbenzene

Diisodecyl phthalate (mixed Is) Toluene

108-88-3 Tolue

14808-60-7 Crystalline Silica (Quartz)/ Silica Sand

SECTION 16 - OTHER INFORMATION

HMIS Rating:

Health	2	0 = Minimum
Flammability	0	1 = Slight
Reactivity	0	2 = Moderate
PPF		3 = Serious
		4 = Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



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Prepared by: Rich Mikol

Legend

ACGIH - American Conference of Governmental Hygienists

NTP - National Toxicology Program

DOT - Department of Transportation

DSL - Domestic Substance List

EPA - Environmental Protection Agency

HMIS - Hazardous Materials Information System

IARC - International Agency for Research on Cancer

MSHA - Mine Safety Health Administration

NDSL - Non-Domestic Substance List

NIOSH - National Institute for Occupational Safety and Health

CERCLA - Comprehensive Environmental Response, Compensation, and

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

RTK - Right To Know

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

V - Volume

VOC - Volatile Organic Compound

WHMIS - Workplace Hazardous Materials Information