



SOLARGARD G WHITE ADHESIVE 5 GAL PAIL

Version 2.
REVISION DATE: 06/29/2009

Print Date 07/07/2009

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : SOLARGARD G WHITE ADHESIVE 5 GAL PAIL
Product code : 1711700005P

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 : Coating

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

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

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause moderate irritation to the respiratory system. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue.

Eyes : Vapor and/or mist may cause eye irritation. Direct contact may cause temporary redness and discomfort.

Ingestion : May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, and vomiting.

Skin : May cause moderate irritation.

Aggravated Medical Conditions

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

Chronic Health Effects

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Prolonged or repeated contact/exposure to aromatic petroleum distillates may cause defatting, drying, and irritation of the skin, dermatitis, and central nervous system (CNS) effects. Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. Di(2-ethylhexyl) phthalate, (dioctyl phthalate) given in the diet, produced increased incidence of liver cancers in female rats and male and female mice. An increased incidence of liver cancers or neoplasms were observed in male rats. 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



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stoddard solvent) may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, and adverse liver, kidney, and lung effects.

Target Organs: Skin, Eye, Lung, Liver, Kidney, Nerve, Reproductive

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Styrene Ethylhexyl Acrylate Copolymer	NJTSRN# 51721300-5841P	15.0 - 40.0
Stoddard solvent (Mineral Spirits)	8052-41-3	15.0 - 40.0
Calcium Carbonate (Limestone)	1317-65-3	15.0 - 40.0
Diocetyl phthalate	117-81-7	7.0 - 13.0
Titanium dioxide	13463-67-7	5.0 - 10.0
Calcium carbonate	471-34-1	3.0 - 7.0
1,2,4-Trimethylbenzene	95-63-6	3.0 - 7.0
Clay	1332-58-7	1.0 - 5.0
1,3,5-Trimethylbenzene	108-67-8	1.0 - 5.0
Inert Filler	NJTSRN# 51721300-5013P	1.0 - 5.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	- <1.0
2-Butoxyethanol (Glycol ether)	111-76-2	- <0.1

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

- Inhalation : Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
- 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 : 105 F, 41 C
- 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.



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- Hazardous combustion products : Smoke, fumes. Carbon monoxide and carbon dioxide can form. Nitrogen oxides can form.
- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). Water may be used to cool containers to minimize pressure build-up.
- Fire and explosion conditions : Vapor concentrations in enclosed areas may ignite explosively. Product may ignite if heated in excess of its flash point. Vapors may travel to sources of ignition and flashback. Closed container, may burst when exposed to extreme heat. Empty containers may contain ignitable vapors.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. To prevent generation of static discharges, use bonding/grounding connection when pouring liquid. Extinguish all ignition sources including pilot lights, non-explosion proof motors and electrical equipment until vapors dissipate. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Keep container closed when not in use. Vapor may migrate to sources of ignition. Do not smoke, weld, generate sparks, or use flame near container. Store in sealed containers in a cool, dry, ventilated warehouse location.

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. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Protective measures : Use professional judgment in the selection, care, and use. Inspect and replace equipment at regular intervals.
- Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.

Exposure Limits

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Chemical Name	CAS Number	Regulation	Limit	Form
Stoddard solvent (Mineral Spirits)	8052-41-3	ACGIH TWA: OSHA PEL:	100 ppm 2,900 mg/m3	
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.
Diocetyl phthalate	117-81-7	ACGIH TWA: OSHA PEL:	5 mg/m3 5 mg/m3	
Titanium dioxide	13463-67-7	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.
1,2,4-Trimethylbenzene	95-63-6	ACGIH TWA:	25 ppm	
Clay	1332-58-7	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	2 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Total dust. Respirable fraction. Total dust. Respirable fraction.
1,3,5-Trimethylbenzene	108-67-8	ACGIH TWA:	25 ppm	
Inert Filler	51721300-5013P	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Total dust. Total dust. Respirable fraction.
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	OSHA TWA: OSHA TWA: OSHA PEL: OSHA PEL: ACGIH TWA:	0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3 0.025 mg/m3	Respirable. Total dust. Total dust. Respirable fraction. Respirable fraction.
2-Butoxyethanol (Glycol ether)	111-76-2	ACGIH TWA: OSHA PEL:	20 ppm 240 mg/m3	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
Color : White

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Odor	: Aromatic Solvent
pH	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: Not available.
Water solubility	: Negligible
Specific Gravity	: 0.816
% Volatile Weight	: 28 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid	: Oxidizing agents.Strong acids.Strong bases.
Stability	: Stable under normal conditions. Avoid welding arcs, flames or other high temperature sources.
Hazardous polymerization	: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Diocetyl phthalate, CAS-No.: 117-81-7	
Acute oral toxicity (LD-50 oral)	25,000 mg/kg (Rat) 25,000 mg/kg (Rat) 30,000 mg/kg (Mouse) 33,900 mg/kg (Rabbit) 26,300 mg/kg (Guinea pig)
Acute dermal toxicity (LD-50 dermal)	25,000 mg/kg (Rabbit) 10,000 mg/kg (Guinea pig) 25,000 mg/kg (Rabbit)
Calcium carbonate, CAS-No.: 471-34-1	
Acute oral toxicity (LD-50 oral)	6,450 mg/kg (Rat)
2-Butoxyethanol (Glycol ether), CAS-No.: 111-76-2	
Acute oral toxicity (LD-50 oral)	1,200 mg/kg (Mouse) 320 mg/kg (Rabbit) 1,200 mg/kg (Guinea pig) 1,480 mg/kg (Rat)
Acute dermal toxicity (LD-50 dermal)	400 mg/kg (Rabbit)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

RCRA Class : D001: Reportable Quantity = 100 lbs. (Characteristic of ignitability)



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This classification applies only to the material as it was originally produced.

Disposal Method : Subject to hazardous waste treatment, storage, and disposal requirements under RCRA. Recycle or incinerate waste at EPA approved facility or dispose of in compliance with federal, state and local regulations.

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 : Diocetyl phthalate 117-81-7
1,2,4-Trimethylbenzene 95-63-6

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard
Fire Hazard

OSHA Hazardous Components :

Stoddard solvent (Mineral Spirits) 8052-41-3
Calcium Carbonate (Limestone) 1317-65-3
Diocetyl phthalate 117-81-7
Titanium dioxide 13463-67-7
1,2,4-Trimethylbenzene 95-63-6
Clay 1332-58-7
1,3,5-Trimethylbenzene 108-67-8
Inert Filler NJTSRN# 51721300-5013P
Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
2-Butoxyethanol (Glycol ether) 111-76-2

OSHA Status: Considered : Irritant
hazardous based on the Carcinogen
following criteria:

OSHA Flammability : II

Regulatory VOC (less water and : 232 g/l
exempt solvent)

VOC Method 310 : 28 %

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Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:
Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

U.S. State Regulations:

MASS RTK Components :

Stoddard solvent (Mineral Spirits)	8052-41-3
Calcium Carbonate (Limestone)	1317-65-3
Diocetyl phthalate	117-81-7
Titanium dioxide	13463-67-7
Calcium carbonate	471-34-1
1,2,4-Trimethylbenzene	95-63-6
Clay	1332-58-7
1,3,5-Trimethylbenzene	108-67-8
Inert Filler	NJT SRN# 51721300-5013P
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7

Penn RTK Components :

Styrene Ethylhexyl Acrylate Copolymer	NJT SRN# 51721300-5841P
Stoddard solvent (Mineral Spirits)	8052-41-3
Calcium Carbonate (Limestone)	1317-65-3
Diocetyl phthalate	117-81-7
Titanium dioxide	13463-67-7
Calcium carbonate	471-34-1
1,2,4-Trimethylbenzene	95-63-6
Clay	1332-58-7
1,3,5-Trimethylbenzene	108-67-8
Inert Filler	NJT SRN# 51721300-5013P

NJ RTK Components :

Styrene Ethylhexyl Acrylate Copolymer	NJT SRN# 51721300-5841P
Stoddard solvent (Mineral Spirits)	8052-41-3
Calcium Carbonate (Limestone)	1317-65-3
Diocetyl phthalate	117-81-7
Titanium dioxide	13463-67-7
1,2,4-Trimethylbenzene	95-63-6
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7

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

117-81-7	Diocetyl phthalate
14808-60-7	Crystalline Silica (Quartz)/ Silica Sand



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SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	2
Flammability	2
Reactivity	1
PPE	

0 = Minimum
1 = Slight
2 = Moderate
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.

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 Liability Act
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 System