

**GEOFLEX PRIMER, 4 x 1 QT**

Version 4.0

REVISION DATE: 07/08/2012

Print Date 07/09/2012

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : GEOFLEX PRIMER, 4 x 1 QT  
Product code : 251020

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**

Light Yellow. 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 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. Chloroprene is designated by NIOSH as a carcinogen, but IARC classified it as a Group 3 chemical (inadequate evidence for carcinogenicity to humans and animals). Methylene chloride was found to cause cancer in experimental animals; IARC concluded it may be reasonably anticipated to be a carcinogen. Overexposure to methylene chloride caused liver and kidney effects in experimental animals. Prolonged or repeated exposure 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, and testes damage. Toluene overexposure may cause burns of the skin, respiratory tract damage. May be harmful to the human fetus based on animal

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tests and limited epidemiology data. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

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

**SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
Dichloromethane (Methylene Chloride)	75-09-2	40.0 - 70.0
Chloroprene	126-99-8	10.0 - 30.0
Styrene-butadiene rubber	52831-07-9	7.0 - 13.0
Toluene	108-88-3	7.0 - 13.0
Alkyl Phenol Resin	NJTSRN# 51721300-5631P	5.0 - 10.0
Xylene	1330-20-7	1.0 - 5.0

**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 : Wash area of contact thoroughly with hand cleaner followed by 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 : 45 °F, 7 °C
- Method : Setaflash Closed Cup
- Lower explosion limit : 1.00 %(V) Solvent
- Upper explosion limit : 7.00 %(V) Solvent
- Autoignition temperature : Not available.
- Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.
- 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.

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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**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Regulation</b>	<b>Limit</b>	<b>Form</b>
Dichloromethane (Methylene Chloride)	75-09-2	ACGIH TWA:	50 ppm	
Chloroprene	126-99-8	ACGIH TWA: OSHA PEL:	10 ppm 90 mg/m3	

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<b>Chemical Name</b>	<b>CAS Number</b>	<b>Regulation</b>	<b>Limit</b>	<b>Form</b>
Toluene	108-88-3	ACGIH TWA: OSHA TWA:	20 ppm 200 ppm	
Xylene	1330-20-7	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 150 ppm 435 mg/m3	

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Liquid
Color	: Light Yellow
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	: 103 - 288 °F, 39 - 142 °C
Water solubility	: Negligible
Specific Gravity	: 1.2365
% Volatile Weight	: 59 %

**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**

Dichloromethane (Methylene Chloride), CAS-No.: 75-09-2	
Acute oral toxicity (LD-50 oral)	1,600 mg/kg ( Rat ) 3,000 mg/kg ( Rat )
Acute inhalation toxicity (LC-50)	2,000 mg/l for 15 min ( Rat ) 11,600 mg/l for 6 h ( Guinea pig ) 14,400 mg/l for 7 h ( Mouse ) 79 mg/l for 2 h ( Rat ) 52 mg/l for 6 h ( Rat ) 56.23 mg/l for 7 h ( Mouse ) 49.1 mg/l for 6 h ( Mouse ) 51.5 mg/l for 2 h ( Mouse ) 40.2 mg/l for 6 h ( Guinea pig ) 16,000 mg/l for 7 h ( Mouse )
Chloroprene, CAS-No.: 126-99-8	

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Acute oral toxicity (LD-50 oral)	450 mg/kg ( Rat ) 146 mg/kg ( Mouse )
Acute inhalation toxicity (LC-50)	11.8 mg/l for 4 h ( Rat ) 2.3 mg/l ( Mouse )

Toluene, CAS-No.: 108-88-3

Acute oral toxicity (LD-50 oral)	2,600 - 7,500 mg/kg ( Rat ) 5,000 mg/kg ( Rat )
Acute inhalation toxicity (LC-50)	26,700 mg/l for 1 h ( Rat ) 400 mg/l for 24 h ( Mouse ) 5,320 mg/l for 8 h ( Mouse )
Acute dermal toxicity (LD-50 dermal)	12,124 mg/kg ( Rabbit )

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)	6,350 mg/l for 4 h ( Rat ) 3,907 mg/l for 6 h ( Mouse ) 8,000 mg/l for 4 h ( Rat )

**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

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

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****CFR / DOT:**

UN1992, Flammable liquids, toxic, n.o.s. (Toluene, Methylene Chloride), 3(6.1), PG II

**TDG:**

UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (Toluene, Methylene Chloride), 3 (6.1), PG II

**IMDG:**

UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (Toluene, Methylene Chloride), 3(6.1), PG II

**Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

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**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	:	Dichloromethane (Methylene Chloride)	75-09-2
		Chloroprene	126-99-8
		Toluene	108-88-3
		Xylene	1330-20-7

SARA 311/312 Hazards	:	Acute Health Hazard
		Fire Hazard

**OSHA Hazardous Components :**

Dichloromethane (Methylene Chloride)	75-09-2
Chloroprene	126-99-8
Toluene	108-88-3
Xylene	1330-20-7

OSHA Status: Considered hazardous based on the following criteria:	:	Irritant
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OSHA Flammability	:	IB
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Regulatory VOC (less water and exempt solvent)	:	250 g/l
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VOC Method 310	:	8 %
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**U.S. State Regulations:**

MASS RTK Components	:	Dichloromethane (Methylene Chloride)	75-09-2
		Chloroprene	126-99-8
		Toluene	108-88-3
		Xylene	1330-20-7

Penn RTK Components	:	Dichloromethane (Methylene Chloride)	75-09-2
		Chloroprene	126-99-8
		Styrene-butadiene rubber	52831-07-9
		Toluene	108-88-3
		Alkyl Phenol Resin	NJTSRN# 51721300-5631P
		Xylene	1330-20-7

NJ RTK Components	:	Dichloromethane (Methylene Chloride)	75-09-2
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Chloroprene	126-99-8
Styrene-butadiene rubber	52831-07-9
Toluene	108-88-3
Alkyl Phenol Resin	NJTSRN# 51721300-5631P
Xylene	1330-20-7

Components under California Proposition 65:

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

**SECTION 16 - OTHER INFORMATION****HMIS Rating :**

Health	2
Flammability	3
Reactivity	0
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