



# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: P.I.G.  
CS09**

## **SECTION 1: PRODUCT INFORMATION**

Manufactured By: Bridgepoint Systems, 4282 W 590 W, Salt Lake City, Utah 84123  
Company Phone Number: 801-261-1282  
Emergency Phone Number: 1-800-535-5053 (Infotrac)  
Date Prepared: 1/26/2012

Hazard Rating (Zero=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)  
Fire: 4 Health:1 Reactivity: 0

## **SECTION 2: COMPOSITION/ INGREDIENTS**

<u>PRINCIPLE HAZARDOUS INGREDIENTS:</u>	<u>TLV</u>	<u>OSHA PEL</u>
Glycol Ether DE (CAS # 111-90-0)	25 ppm.	N/E
Isopropyl acetate (CAS # 108-21-4)	250 ppm	250 ppm
Ethylene Glycol (CAS # 107-21-1)	100mg/m3	100mg/m3

## **SECTION 3: HAZARDS IDENTIFICATION**

### **Emergency overview**

DANGER

EYE AND SKIN IRRITANT.

Flammable liquid - may release vapors that form flammable mixtures at or above the flash point

### **Routes of exposure**

#### **Potential short term health effects**

Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

**Eyes** May cause irritation.

**Skin** May cause irritation. May be absorbed through the skin.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Ingestion** May cause stomach distress, nausea or vomiting.

**Target organs** Eyes. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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### **SECTION 4: FIRST AID MEASURES**

#### **Eye contact**

#### **First aid procedures**

Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

**Skin contact** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

**Inhalation** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion** Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Seek medical attention immediately. If person is fully conscious give 1 cup or 8 ounces (240 ml) of water.

**Notes to physician** Symptoms may be delayed.

**General advice** Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

**Flammable properties** Flammable by WHMIS/OSHA criteria. Containers may explode when heated.

### **SECTION 5: FIRE FIGHTING MEASURES**

**Flash point:** 48.0 °F (8.89 °C) TCC

**Boiling Point:** >200 °F

#### **Suitable extinguishing media**

#### **Extinguishing media**

Carbon dioxide. Alcohol foam. Dry chemical. Water Fog.

**Unsuitable extinguishing media** Water.

#### **Specific hazards arising from the chemical**

#### **Protection of firefighters**

Not available

#### **Protective equipment for firefighters**

Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products** May include and are not limited to: Oxides of nitrogen. Oxides of carbon. Oxides of sulphur.

#### **Sensitivity to mechanical impact**

#### **Explosion data**

Not available

**Sensitivity to static discharge** Not available

**Personal precautions** Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

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### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Environmental precautions** Do not discharge into lakes, streams, ponds or public waters.

**Methods for containment** Stop leak if you can do so without risk.

**Methods for cleaning up** Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers.

**Handling** Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

### **SECTION 7: HANDLING & STORAGE**

**Storage** Keep out of reach of children. Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials.

### **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering controls** General ventilation normally adequate.

**Eye / face protection**

**Personal protective equipment** Wear safety glasses with side shields.

**Hand protection** Rubber gloves. Confirm with a reputable supplier first.

**Skin and body protection** As required by employer code.

**Respiratory protection** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

### **SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

**Appearance** Clear.

**Color:** Light Amber

**Form** Liquid

**Odor** Fruity

**Odor threshold** Not available

**Physical state** Liquid

**pH** N/A

**Vapor pressure** 0.96 @ 20°C

**Vapor density** 4.31 @ 23.9°C

**Specific gravity** 0.829

**Solubility (H<sub>2</sub>O)** Complete

**Reactivity** This product may react with strong acids.

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### **SECTION 10: STABILITY & REACTIVITY**

**Possibility of hazardous reactions:** Hazardous polymerization does not occur.

**Chemical stability:** Stable under recommended storage conditions.

**Conditions to avoid:** high temperatures. Do not mix with other chemicals.

**Incompatible materials:** Caustics. Oxidizers. Acids.

**Hazardous decomposition products:** May include and are not limited to: Oxides of nitrogen. Oxides of carbon. Oxides of sulphur.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Glycol Ether DE (CAS # 111-90-0)**

**LC50** Not available

**LD50** 5500 mg/kg rat

**Isopropyl Acetate (CAS # 108-21-4)**

**LC50** 17100 ppm rat

**LD50** 6160 mg/kg rat

**Ethylene Glycol (CAS# 107-21-1)**

Ingestion

For ethylene glycol: Lethal Dose, Human, adult 3 Ounces

**LD50**, Rat 6,000 - 13,000 mg/kg

Skin Absorption

**LD50**, Rabbit > 22,270 mg/kg

Inhalation

**LC50**, 7 h, Aerosol, Rat > 3.95 mg/l

**Name of Toxicologically Synergistic Products**

Not available

### **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**

**Glycol Ether DE (CAS # 111-90-0)**

96 Hr LC50 Oncorhynchus mykiss: 11400-15700 mg/L [flow-through]; 96 Hr LC50

Pimephales promelas: 11600-16700 mg/L [flow-through]; 96 Hr LC50 Lepomis

macrochirus: 10000 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 19100-23900

mg/L [flow-through]; 96 Hr LC50 Salmo gairdneri: 13400 mg/L [flow-through]

**Ecotoxicity - Water Flea - Acute Toxicity Data**

**Glycol Ether DE (CAS # 111-90-0)**

48 Hr EC50 Daphnia magna: 3940 - 4670 mg/L

**Isopropyl Acetate (CAS # 108-21-4)**

24 Hr EC50 Daphnia magna: 1260 mg/L

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### Ecotoxicity

#### Ethylen Glycol (CAS # 107-21-1)

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in the most sensitive species tested). Fish Acute & Prolonged Toxicity

LC50, rainbow trout (*Oncorhynchus mykiss*), static, 96 h: 18,000 - 46,000 mg/l

Aquatic Invertebrate Acute Toxicity

LC50, water flea *Daphnia magna*, static, 48 h: 46,300 - 51,100 mg/l

Aquatic Plant Toxicity

EC50, green alga *Selenastrum capricornutum*, biomass growth inhibition, 96 h: 9,500 - 13,000 mg/l

Toxicity to Micro-organisms

EC50, OECD 209 Test; activated sludge, respiration inhibition, 30 min: 225 mg/l

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Do not dispose of on the land, in surface waters, or in storm drains. Small spills and waste may be flushed into a waste treatment sewer where local regulations permit. Larger quantities should be collected for reuse or consigned to a licensed hazardous waste hauler for disposal in accordance with federal, state and local regulations. **All disposal must be in accordance with all federal, state and local regulations.**

### **SECTION 14: TRANSPORT INFORMATION**

**Ground Transportation:** Limited quantity exception applies to inner packages of less than 0.3 gallons. Inner package containing more than 0.3 g. must be transported as UN1993; Flammable Liquid, NOS (Glycol Ether DE & Isopropyl acetate); 3.1; II

**Air Transportation:** With a vented seal/cap, this item cannot be shipped via air in accordance with CFR 49 173-24(g).

**Maritime Transportation:** UN1993; Flammable Liquid, NOS (Glycol Ether DE & Isopropyl acetate); 3.1; II (Check for limited quantity exceptions)

### **SECTION 15. REGULATORY INFORMATION**

#### US Federal Regulations:

**TSCA Status:** The intentional components of this product are listed.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

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## State Regulations:

### **Glycol Ether DE (CAS # 111-90-0)**

Minnesota - Hazardous Substance List

### **Isopropyl Acetate (CAS # 108-21-4)**

California - 8 CCR Section 339 - Director's List of Hazardous Substances

Massachusetts - Right To Know List

Minnesota - Hazardous Substance List

New Jersey - Right to Know Hazardous Substance List

Pennsylvania - RTK (Right to Know) List

Rhode Island - Hazardous Substance List

### **Ethylene Glycol (CAS # 107-21-1)**

Pennsylvania - RTK (Right to Know) List

### **Country(s) or region Inventory name On inventory (yes/no)\***

Canada Domestic Substances List (DSL) Yes

Canada Non-Domestic Substances List (NDSL) No

### **Canada - WHMIS - Ingredient Disclosure List**

Glycol Ether DE (CAS # 111-90-0)

Isopropyl acetate (CAS # 108-21-4)

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS status** Controlled

**WHMIS classification** Class B - Division 2 - Flammable Liquid, Class D - Division 2B

**WHMIS labeling**

## **SECTION 16. OTHER INFORMATION**

While this information and recommendations set forth herein are believed to be accurate and reliable, it is provided without warranty regarding its accuracy. BRIDGEPOINT SYSTEMS MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON. Users must determine safe conditions for use and assume liability for any loss, injury, damage or expense resulting from use of this product.

N/A= Not applicable N/D= Not determined N/E= Not established