



# Material Safety Data Sheet



## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name **GLYSOL™ PC**  
Manufacturer Workcell Systems, Inc.  
P.O. Box 1645  
Highland Park, IL 60035  
Telephone Numbers 24-Hour emergency assistance 847-579-0595  
General Assistance 847-579-0595  
Product Class Methyl Esters/Glycol Ethers blend  
Product Number  
Effective Date August 25, 2006

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER	PERCENT
Methyl ester, soybean oil	67784-80-9	40 – 90%
Methoxy Propoxy Propanol	34590-94-8	10 – 60%
Anti-oxidant	Confidential	<1%

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** Clear liquid, light amber color, mild odor.  
May cause irritation to the eyes, skin and respiratory system.

**HEALTH EFFECTS: EYES** May cause slight temporary eye irritation.  
Corneal injury is unlikely.

**HEALTH EFFECTS: SKIN** Prolonged and/or repeated contact with skin may cause irritation and redness.

**HEALTH EFFECTS: INHALATION** High vapor or aerosol mist may be irritating to the nose, throat and upper respiratory tract. Signs and symptoms of Excessive or prolonged overexposure may be anesthetic or narcotic effects.

**HEALTH EFFECTS: INGESTION** Small amounts swallowed are not likely to cause injury.  
Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea and diarrhea.

**SYSTEMIC EFFECTS:  
OTHER TARGET ORGANS** Observations in animals include minor liver or kidney effects.  
Signs and systems of excessive exposure may be anesthetic or narcotic effects.

## 4. FIRST AID MEASURES

<b>EYES</b>	Immediately flush eyes with water for at least 15 minutes. If irritation persists get medical attention.
<b>SKIN</b>	Flush exposed skin area with large amounts of water. If irritation persists get medical attention.
<b>INHALATION</b>	If symptoms are noted, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen by qualified personnel. Call a physician or transport to a medical facility.
<b>INGESTION</b>	Ingestion of small amounts is not likely to cause injury. If large amounts are ingested get medical attention. <b>DO NOT INDUCE VOMITING</b> unless directed to do so by medical personnel.
<b>NOTE TO PHYSICIAN</b>	No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

## 5. FIRE FIGHTING MEASURES

<b>FLAMMABLE PROPERTIES</b>	Flash point >189° F (>85° C) P-M CC
	Autoignition temperature Not determined
<b>FLAMMABILITY LIMITS</b>	LFL Not determined
	UFL Not determined
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon monoxide, carbon dioxide.
<b>EXTINGUISHING MEDIA</b>	Dry chemical, foam, water fog, fine spray, carbon dioxide (CO <sub>2</sub> ). Do not use direct water stream.
<b>FIRE FIGHTING INSTRUCTIONS</b>	Keep people away. Burning liquids may be extinguished by dilution with water. Do not use direct water stream, may spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.
<b>FIRE FIGHTING EQUIPMENT</b>	Fire fighters should wear full fire fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus (SCBA) with full face-piece operated in the pressure demand or other positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

See section 15 for Regulatory Information

### SPILL AND LEAK PROCEDURES

**Protect people:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Eliminate all ignition sources (no smoking, flares, sparks or flames in the immediate area).

**Protect the Environment:** Contain liquid to prevent contamination of soil, surface water or ground water.

### CLEANUP

**Small Spills:** Wear appropriate personal protective equipment. Absorb spilled liquid with sand, clay, or other non-combustible absorbent material and transfer to open containers for disposal.

**Large Spills:** Wear appropriate personal protective equipment. Dike ahead of liquid spill to prevent spread. Prevent entry into waterways, sewers, basements or confined areas. Pump liquid into tanks or containers for disposal. Absorb residual with sand, clay, or other non-combustible absorbent material and transfer to open containers for disposal.

**CAUTION: SURFACES MAY BECOME SLIPPERY AFTER SPILLAGE**

## 7. HANDLING & STORAGE

### HANDLING

Wash thoroughly after handling. As with all industrial chemicals, good industrial hygiene practices should be followed when handling this material.

Empty containers, drums, cans, bottles, etc., carry the same precautions as the original chemical. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations near empty containers that previously contained this chemical.

### STORAGE

Store in a cool, dry, well-ventilated area. Keep out of direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition.

Protect from freezing.

Recommended storage temperature range: 40° F - 90° F (4° C - 32° C)

Store away from strong oxidizers. Store in unlined carbon steel, stainless steel, high density polyethylene (HDPE), polypropylene (PP), Teflon®.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS

Use general ventilation. Local exhaust may be required in enclosed or confined spaces.

### PERSONAL PROTECTIVE EQUIPMENT

- Eyes / Face:** Use safety glasses. If splashing is likely, wear chemical goggles or face shield.
- Skin:** For brief contact, no precautions other than clean, dry body-covering clothing is needed. If repeated or prolonged contact is likely, wear protective clothing and impervious gloves.
- Respiratory:** When airborne exposure guidelines may be exceeded, NIOSH approved respiratory protection for organic vapors should be worn
- General:** Access to eye wash fountain and emergency showers is recommended.

### EXPOSURE GUIDELINES

dipropylene glycol methyl ether component

ACGIH TLV and OSHA PEL are 100 ppm TWA. 150 ppm STEL. PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

## 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear liquid, light amber color
Odor	Mild vegetable oil odor
Flash Point	189° F (87.2° C) (Pensky-Martens closed cup)
Boiling Point	420°F (215.6° C)
Specific Gravity	0.897
Vapor pressure	<1 mm Hg. @25° C
Vapor Density	~6 (Air=1)
Volatile Organic Compounds (VOC) Content	253 g/L (per 40 CFR Part 60 Method 24)
Evaporation Rate	< ethyl ether
Viscosity	6 cps @25° C
Solubility in Water	Partial
Pour Point	<0° C

## 10. STABILITY & REACTIVITY

### CHEMICAL STABILITY

Stable under recommended storage conditions. See **STORAGE** section.

### CONDITIONS TO AVOID

Avoid strong oxidizing agents. Avoid static discharge.

### INCOMPATIBILITY

This product may react with strong oxidizing agents, alkalis.

### HAZARDOUS DECOMPOSITION

Does not decompose under recommended storage conditions. Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Methanol may be evolved if hydrolyzed or saponified.

### HAZARDOUS POLYMERIZATION

Will not occur

## 11. TOXICOLOGICAL INFORMATION

**CARCINOGENICITY** No data available  
**LD50 VALUE**

**Oral:** No data available  
**Dermal:** No data available

**Mutagenicity** None

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE** This product is readily and completely biodegradable  
**ECOTOXICITY** No data available

## 13. DISPOSAL CONSIDERATIONS

See Section 15 for Regulatory Information

**DISPOSAL INSTRUCTIONS** **DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.**

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**WORKCELL SYSTEMS, INC. HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN IT'S INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (COMPOSITION / INFORMATION ON INGREDIENTS).**

## 14. TRANSPORT INFORMATION

**DEPARTMENT OF TRANSPORTATION (DOT):** Refer to bill of lading or container label for DOT regulatory information if required.

**CANADIAN TDG INFORMATION** Refer to bill of lading or container label for TDG regulatory information if required.

## 15. REGULATORY INFORMATION

NOT MEANT TO BE ALL INCLUSIVE — SELECTED REGULATIONS REPRESENTED

**NOTICE:** The information herein is presented in good faith and is believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with Federal, State or Provincial, and Local laws and regulations. See other sections for health, safety and disposal information.

### US REGULATIONS

- SARA 313 Information:** To the best of our knowledge, this product contains no chemical subject to SARA Title III supplier notification requirements.
- Toxic Substances Control Act (TSCA):** All ingredients are listed on the TSCA inventory or not required to be listed on the TSCA inventory.
- State Right-To-Know:** This product is not known to contain any substances subject to the disclosure requirements of New Jersey, Pennsylvania.
- OSHA Hazard Communication Standard:** This product contains a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 .
- National Fire Protection Association (NFPA) Ratings:**
- |               |   |
|---------------|---|
| Health:       | 1 |
| Flammability: | 1 |
| Reactivity:   | 0 |

## 16. OTHER INFORMATION

- National Fire Protection Association (NFPA) Ratings:**
- |               |   |
|---------------|---|
| Health:       | 1 |
| Flammability: | 1 |
| Reactivity:   | 0 |

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