

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **POLYPRINT PD207CL CLEANING SOLUTION**

Product Use: Ink-Jet Printing

Company Identification:

DISTRIBUTOR:

**POLYPRINT SA**

**190 Agiou Dimitriou str.**

**54638 Thessaloniki, Greece**

**Tel: 0030 2310 246418**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components (% by weight)

<b>Material</b>	<b>CAS Number</b>	<b>%</b>
Water	7732-18-5	80-98
*Ethylene Glycol	107-21-1	1-10
Propylene Glycol	57-55-6	1-10

\*Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Components (Remarks)

\*\*The specific identity for each component not identified by a CAS Registry Number is withheld as a trade secret.

### 3. HAZARDS IDENTIFICATION

#### Potential Health Effects

THIS PRODUCT CAN BE USED SAFELY WHEN USED AS DIRECTED AND WHEN APPLICABLE SAFETY PRECAUTIONS ARE FOLLOWED.

#### POTENTIAL HEALTH EFFECTS FROM PRODUCT

Potential routes of overexposure to this product are skin contact, eye contact and inhalation of vapor.

Ingestion is not expected to be a significant route of exposure for this product under normal use conditions.

There is no toxicity data available for this specific formulation. Any potential hazards are presumed to be due to exposure to the components.

#### ADDITIONAL HEALTH EFFECTS

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Since this mixture has not been tested as a whole to determine the hazards by all routes of exposure, information is provided for each hazardous component of the mixture to meet requirements of OSHA's Hazard Communication Standard (29 CFR 1910.1200).

The effects noted occur from exposure to the pure component unless otherwise noted.

#### INFORMATION FOR COMPONENTS

##### ETHYLENE GLYCOL

Eye Contact - May cause slight transient (temporary) eye irritation. Corneal injury is unlikely. Vapors or mists may cause eye irritation.

Skin Contact - Essentially nonirritating to skin. Repeated skin exposure to large quantities may result in absorption of harmful amounts.

Inhalation - At room temperature, exposure to vapors are minimal due to physical properties; higher temperatures may generate vapor levels sufficient to cause adverse effects.

Ingestion - Single dose oral toxicity is considered to be moderate. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing amounts larger than that may cause serious injury, even death.

Systemic (Other Target Organ) Effects - Excessive exposure may cause irritation to upper respiratory tract. Observations in animals include kidney and liver effects and deposition of calcium salts in various tissues after long-term dietary intake of ethylene glycol.

Cancer Information - Ethylene glycol did not cause cancer in long-term animal studies.

Teratology (Birth Defects) - Based on animal studies, ingestion of very large amounts of ethylene glycol appears to be the major and possibly only route of exposure to produce birth defects. Exposures by inhalation (tested nose-only in animals to prevent ingestion) or skin contact, the primary routes of occupational exposure, had minimal or essentially no effect on the fetus.

Reproductive Effects - Ingestion of large amounts of ethylene glycol has been shown to interfere with reproduction in animals. Specifically, growth retardation and decreased litter size in rats and mice and mating frequency in mice were observed.

##### PROPYLENE GLYCOL

Eye Contact - Immediate effects of overexposure may include eye irritation with tearing, pain or blurred vision. Mists may cause eye irritation.

Skin Contact - Short-term overexposure may cause irritation with itching, burning, redness, swelling or rash. Significant skin permeation, and systemic toxicity, after contact appears unlikely. The compound has been infrequently associated with skin sensitization in humans.

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Inhalation - Exposure to mists may cause irritation of the nose and throat with sneezing, sore throat or runny nose.

Ingestion - Gross overexposure may cause central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness.  
Acidosis.

#### Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

## 4. FIRST AID MEASURES

### First Aid

#### INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### SKIN CONTACT

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Consult a physician. Wash contaminated clothing before reuse.

#### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

#### INGESTION

Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician.

## 5. FIRE FIGHTING MEASURES

### Flammable Properties

Flash Point : >93.3 oC (>200 oF)

Method: Closed Cup

Approximate Flammable Limits in Air, % by Volume

LEL: Not Available

UEL: Not Available

Autoignition Temperature: Not Available

Product is a nonflammable water-based solution.

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Hazardous combustion products (gases/vapors) produced in fire can include carbon monoxide, carbon dioxide and smoke.

#### Extinguishing Media

Use media appropriate for surrounding material.

#### Fire Fighting Instructions

This product is not flammable. Use normal firefighting procedures for the area.

## **6. ACCIDENTAL RELEASE MEASURES**

#### Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

#### Initial Containment

Dike spill.

#### Spill Clean Up

Soak up with absorbent material.

## **7. HANDLING AND STORAGE**

#### Handling (Personnel)

Avoid contact with eyes, skin, or clothing.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Personal Protective Equipment

##### EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of the material.

##### RESPIRATORS

Respirators are not needed for normal use.

##### PROTECTIVE CLOTHING

If there is potential for significant dermal contact wear appropriate impervious clothing and gloves.

#### **Applicable Exposure Limits and Exposure Data**

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#### WATER

PEL (OSHA): None Established  
TLV (ACGIH): None Established  
AEL \* (Manufacturer): None Established  
LD<sub>50</sub> (rat, oral) : >90 mL/kg (RTECS)  
LC<sub>50</sub> (rat, inhalation/4 hr.): No data available

#### ETHYLENE GLYCOL

PEL (OSHA): None Established  
TLV (ACGIH): Ceiling: 100 mg/m<sup>3</sup>, aerosol  
AEL \* (Manufacturer): 50 ppm, 8 Hr. TWA, vapor  
IEL (2000/39/EC): 52 mg/m<sup>3</sup>, 20 ppm, skin  
STEL 104 mg/m<sup>3</sup>, 40 ppm  
LD<sub>50</sub> (rat, oral): 4,700 mg/kg (RTECS)  
LD<sub>50</sub> (rabbit, dermal): 9,530 uL/kg (RTECS)  
LC<sub>50</sub> (rat, inhalation/4 hr.) : >200 mg/m<sup>3</sup> (RTECS)

#### PROPYLENE GLYCOL

PEL (OSHA): None Established  
TLV (ACGIH): None Established  
AEL \* (Manufacturer): None Established  
WEEL (AIHA): 50 ppm, total vapor and aerosol, 8 Hr. TWA  
10 mg/m<sup>3</sup>, aerosol only, 8 Hr. TWA  
LD<sub>50</sub> (rat, oral): 20,000 mg/kg (RTECS)  
LD<sub>50</sub> (rat, dermal): 20,800 mg/kg (RTECS)  
LC<sub>50</sub> (rat, inhalation/4 hr.): No data available

\* AEL is Manufacturer's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical Data

Form: Liquid  
Color: Colorless to slight yellow  
Odor: Slight  
Solubility in Water: Miscible  
pH: About 8.5  
Specific Gravity: About 1.1

### Other Information

Flash Point : >93.3 oC (>200 oF)

Method: Closed Cup  
Approximate Flammable Limits in Air, % by Volume  
LEL: Not Available  
UEL: Not Available  
Autoignition Temperature: Not Available

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## **10. STABILITY AND REACTIVITY**

### Chemical Stability

Stable at normal temperatures and storage conditions.

### Incompatibility with Other Materials

None reasonably foreseeable.

### Decomposition

Decomposition does not occur during normal use.

### Polymerization

Polymerization will not occur.

## **11. TOXICOLOGICAL INFORMATION**

### Animal Data

No data available for product.

## **12. ECOLOGICAL INFORMATION**

### Ecotoxicological Information

No data available for product.

## **13. DISPOSAL CONSIDERATIONS**

### Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

## **14. TRANSPORTATION INFORMATION**

(Not meant to be all inclusive)

DOT (Domestic Surface, U.S.A.): Not regulated

ICAO/IATA (Air): Not regulated

IMO/IMDG (Ocean): Not regulated

## **15. REGULATORY INFORMATION**

(Not meant to be all inclusive - selected regulations represented)

### **U.S. Regulations**

Federal Regulations

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TSCA Inventory Status - All components of this product are listed, or exempt from listing, on the TSCA 8(b) chemical inventory.

TSCA Section 12(b) Export Notification - This product can contain: None

State Regulations

State Right-To-Know

WARNING - SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM (California Proposition 65)

None

### **European Union Regulations**

EU Inventory Status - All components of this product are listed, or are exempt from listing, on the EINECS chemical inventory.

Transport Information - This product is not classified as dangerous within the meaning of transport regulations.

Labeling - This product does not need to be labeled in accordance with EC-Directive 1999/45/EC.

### **Switzerland**

Switzerland VOC Regulations (Ordinance 814.018, *Verordnung über die Lenkungsabgabe auf flüchtigen organischen Verbindungen*, as of 28 December 2000)

This product is exempt from Swiss VOC regulations.

## **16. OTHER INFORMATION**

HMIS® Rating

Health: 0

Flammability: 1

Reactivity: 0

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

MSDS Contact Information

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Revision History

16 June 2005: New MSDS

7 June 2006: Formulation Change and Review

Key

ACGIH American Conference of Governmental Industrial Hygienists

AEL Acceptable Exposure Limit (Manufacturer)

Cmpds Compounds

DOT Department of Transportation (U.S.A.)

ET Eastern Time (U.S.A.)

EU European Union

HMIS® Hazardous Material Information System (National Paint and Coatings Association)

IARC International Agency for Research on Cancer

IATA International Air Transport Association

ICAO International Civil Aviation Organization

IEL Indicative Exposure Limit (EU Directive 2000/39/EC)

IMDG International Maritime Dangerous Goods

IMO International Maritime Organization

LEL or LFL Lower Explosive Limit or Lower Flammable Limit

M-F Monday through Friday

NA North America

NIOSH National Institute of Occupational Safety and Health (U.S.A.)

NOHSC National Occupational Health and Safety Commission (Worksafe Australia)

NOS Not Otherwise Specified

NTP National Toxicology Program (U.S.A.)

OEL Occupational Exposure Limit

OSHA Occupational Safety and Health Administration (U.S.A.)

PEL Permissible Exposure Limit

RTECS Registry of Toxic Effects of Chemical Substances (NIOSH)

STEL Short Term Exposure Limit

TLV Threshold Limit Value

TSCA Toxic Substances Control Act (U.S.A.)

TWA Time-weighted Average

UEL or UFL Upper Explosive Limit or Upper Flammable Limit

U.S.A. United States of America

VOC Volatile Organic Compound(s)

WEEL Workplace Environmental Exposure Level

End of MSDS

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