



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the substance/preparation** CR290Series  
**Issue date** 19-Aug-2015  
**Version #** 01  
**Recommended use** Inkjet printing  
**CAS #** Mixture  
**Company identification** HP PPS Malaysia Sdn. Bhd.  
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## 2. HAZARDS IDENTIFICATION

**Physical hazards** Not classified.  
**Health hazards** Acute toxicity (oral) Category 1  
Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 1  
Skin sensitizer Category 1  
Toxic to reproduction Category 1B  
Specific target organ toxicity - single exposure Category 2  
Specific target organ toxicity - repeated exposure Category 2  
**Environmental hazards** Not classified.  
**GHS label elements**  
**Signal word** None.  
**Hazard symbols** None.  
**Hazard statement** None.  
**Precautionary statement**  
**Prevention** None.  
**Response** None.  
**Storage** None.  
**Disposal** None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components            | CAS #       | Percent  |
|-----------------------|-------------|----------|
| Glycerin              | 56-81-5     | 20-40    |
| Proprietary Component | Proprietary | < 30     |
| Proprietary Component | Proprietary | < 30     |
| Proprietary Component | Proprietary | < 30     |
| Ethylene glycol       | 107-21-1    | 2.5 - 10 |

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## 4. FIRST AID MEASURES

|                           |   |
|---------------------------|---|
| <b>Inhalation</b>         | Move to fresh air. If symptoms persist, get medical attention.  |
| <b>Skin contact</b>       | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.  |
| <b>Eye contact</b>        | Do not rub eyes. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.   |
| <b>Ingestion</b>          | Rinse mouth out with water. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately. |
| <b>Notes to physician</b> | Treat symptomatically. Symptoms may be delayed.   |

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## 5. FIRE-FIGHTING MEASURES

|  |   |
|--|---|
| <b>Flash point</b>   | 230.0 °F (110.0 °C)   |
| <b>Suitable extinguishing media</b>                                  | CO2, water, dry chemical, or foam   |
| <b>Extinguishing media which must not be used for safety reasons</b> | None known.   |
| <b>Unusual fire &amp; explosion hazards</b>                          | None known.   |
| <b>Fire fighting equipment/instructions</b>                          | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Hazardous combustion products</b>                                 | Fire may produce irritating, corrosive and/or toxic gases.                                    |

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## 6. ACCIDENTAL RELEASE MEASURES

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Ensure adequate ventilation. Wear appropriate personal protective equipment. Avoid inhalation of vapors and contact with skin and eyes. |
| <b>Environmental precautions</b> | Do not let product enter drains. Do not flush into surface water or sanitary sewer system.  |
| <b>Methods for cleaning up</b>   | Wipe up with adsorbent material (e.g. cloth, fleece).   |

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## 7. HANDLING AND STORAGE

|                 |   |
|-----------------|---|
| <b>Handling</b> | Avoid contact with skin, eyes and clothing. Provide good ventilation. Wear personal protective equipment.<br>Avoid inhalation of vapors and contact with skin and eyes. |
| <b>Storage</b>  | Keep away from heat, sparks and flame. Keep away from excessive heat or cold.<br>Store in closed original container in a dry place.                                     |

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

#### Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations)

| Components                     | Type    | Value                | Form              |
|--------------------------------|---------|----------------------|-------------------|
| Ethylene glycol (CAS 107-21-1) | Ceiling | 100 mg/m3            | Aerosol.          |
| Glycerin (CAS 56-81-5)         | TWA     | 39.4 ppm<br>10 mg/m3 | Aerosol.<br>Mist. |

#### US. ACGIH Threshold Limit Values

| Components                     | Type    | Value     | Form     |
|--------------------------------|---------|-----------|----------|
| Ethylene glycol (CAS 107-21-1) | Ceiling | 100 mg/m3 | Aerosol. |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

### Recommended monitoring procedures

**Additional exposure data** Not available.

**Engineering measures to reduce exposure** Provide adequate ventilation.

### Personal protective equipment

**Respiratory protection** Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection.

**Hand protection** Wear appropriate chemical resistant gloves.

**Eye protection** Wear safety glasses; chemical goggles (if splashing is possible).

|                                 |  |
|---------------------------------|--|
| <b>Skin and body protection</b> | Wear suitable protective clothing and eye/face protection.<br>Remove and wash contaminated clothing before re-use. |
| <b>General</b>                  | Avoid contact with the skin and the eyes. Wear suitable protective equipment.                                      |
| <b>Hygiene measures</b>         | When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.       |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

|   |                     |
|---|---------------------|
| <b>Physical state</b>                                 | Not available.      |
| <b>Color</b>  | Black.              |
| <b>Odor</b>   | Odorless            |
| <b>Odor threshold</b>                                 | Not available.      |
| <b>pH</b>   | 6.8 - 7.7           |
| <b>Vapor pressure</b>                                 | Not available.      |
| <b>Boiling point</b>                                  | Not available.      |
| <b>Melting point/Freezing point</b>                   | Not available.      |
| <b>Solubility (water)</b>                             | Not available.      |
| <b>Specific gravity</b>                               | Not available.      |
| <b>Flash point</b>                                    | 230.0 °F (110.0 °C) |
| <b>Flammability limits in air, upper, % by volume</b> | Not available.      |
| <b>Flammability limits in air, lower, % by volume</b> | Not available.      |
| <b>Auto-ignition temperature</b>                      | Not available.      |

## 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Conditions to avoid</b>              | Not available.  |
| <b>Hazardous decomposition products</b> | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.<br>Carbon monoxide and carbon dioxide. |
| <b>Stability</b>                        | Stable under recommended storage conditions.  |
| <b>Materials to avoid</b>               | oxidizing agents  |
| <b>Hazardous polymerization</b>         | None known.   |

## 11. TOXICOLOGICAL INFORMATION

|  |  |
|--|--|
| <b>Toxicological information</b>         | Complete toxicity data are not available for this specific formulation   |
| <b>Skin corrosion/irritation</b>         | Not available.   |
| <b>Serious eye damage/eye irritation</b> | Not available.   |
| <b>Respiratory or skin sensitization</b> |  |
| <b>Skin sensitization</b>                | Not available.   |
| <b>Respiratory sensitization</b>         | Not available.   |
| <b>Carcinogenicity</b>                   | Proprietary component 1 is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). |
| <b>Germ cell mutagenicity</b>            | Not available.   |
| <b>Aspiration hazard</b>                 | Not available.   |

### Toxicological data

| Components                     | Species    | Test Results |
|--------------------------------|------------|--------------|
| Ethylene glycol (CAS 107-21-1) |            |              |
| <b>Acute</b>                   |            |              |
| <i>Dermal</i>                  |            |              |
| LD50                           | Rabbit     | 9530 mg/kg   |
| <i>Oral</i>                    |            |              |
| LD50                           | Cat        | 1650 mg/kg   |
|                                | Dog        | 5500 mg/kg   |
|                                | Guinea pig | 8.2 g/kg     |

| Components   | Species | Test Results |
|--------------|---------|--------------|
|              | Mouse   | 14.6 g/kg    |
|              | Rat     | 5.89 g/kg    |
| <i>Other</i> |         |              |
| LD50         | Mouse   | 5.8 g/kg     |
|              | Rat     | 2800 mg/kg   |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological data

| Components                     | Species | Test Results   |
|--------------------------------|---------|--|
| Ethylene glycol (CAS 107-21-1) |         |  |
| <b>Aquatic</b>                 |         |  |
| Fish                           | LC50    | Fathead minnow (Pimephales promelas) 8050 mg/l, 96 hours                         |
| Glycerin (CAS 56-81-5)         |         |  |
| <b>Aquatic</b>                 |         |  |
| Fish                           | LC50    | Rainbow trout,donaldson trout (Oncorhynchus mykiss) 51000 - 57000 mg/l, 96 hours |

**Environmental effects** Not available.

### Bioaccumulation

#### Bioaccumulative potential

#### Octanol/water partition coefficient log Kow

|                 |       |
|-----------------|-------|
| Ethylene glycol | -1.36 |
| Glycerin        | -1.76 |

## 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Do not allow this material to drain into sewers/water supplies. Dispose of in compliance with federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

### DOT

|                                     |  |
|-------------------------------------|--|
| <b>UN number</b>                    | UN1760                                       |
| <b>UN proper shipping name</b>      | Corrosive liquids, n.o.s. (Sodium Hydroxide) |
| <b>Transport hazard class(es)</b>   |  |
| <b>Class</b>                        | 8  |
| <b>Subsidiary risk</b>              | -  |
| <b>Packaging group</b>              | III  |
| <b>Special precautions for user</b> | Not available.                               |
| <b>Transport hazard class(es)</b>   |  |
| <b>Label(s)</b>                     | 8  |
| <b>Special provisions</b>           | IB3, T7, TP1, TP28                           |
| <b>Packaging exceptions</b>         | 154  |
| <b>Packaging non bulk</b>           | 203  |
| <b>Packaging bulk</b>               | 241  |

### IATA

|                                     |  |
|-------------------------------------|--|
| <b>UN number</b>                    | UN1760                                       |
| <b>UN proper shipping name</b>      | Corrosive liquids, n.o.s. (Sodium Hydroxide) |
| <b>Transport hazard class(es)</b>   |  |
| <b>Class</b>                        | 8  |
| <b>Subsidiary risk</b>              | -  |
| <b>Packing group</b>                | III  |
| <b>Environmental hazards</b>        | No.  |
| <b>Special precautions for user</b> | Not available.                               |

### IMDG

|                                   |  |
|-----------------------------------|--|
| <b>UN number</b>                  | UN1760                                       |
| <b>UN proper shipping name</b>    | Corrosive liquids, n.o.s. (Sodium Hydroxide) |
| <b>Transport hazard class(es)</b> |  |
| <b>Class</b>                      | 8  |
| <b>Subsidiary risk</b>            | -  |

|                                     |                |
|-------------------------------------|----------------|
| <b>Packing group</b>                | III            |
| <b>Environmental hazards</b>        |                |
| <b>Marine pollutant</b>             | No.            |
| <b>EmS</b>                          | Not available. |
| <b>Special precautions for user</b> | Not available. |

**ADR**

**Basic shipping requirements:**

|                                |  |
|--------------------------------|--|
| <b>Proper shipping name</b>    | Corrosive liquids, n.o.s. (Sodium Hydroxide) |
| <b>Hazard class</b>            | 8  |
| <b>UN number</b>               | 1760   |
| <b>Packing group</b>           | III  |
| <b>Additional information:</b> |  |
| <b>Packaging exceptions</b>    | 154  |

**DOT**



**IATA; IMDG**



**ADR**

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**15. REGULATORY INFORMATION**

**International regulations**      Contains components not listed in: Japan, Canada, European Union, and Philippines.

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**16. OTHER INFORMATION**

**Disclaimer**      This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

|                    |             |
|--------------------|-------------|
| <b>Prepared by</b> | HP          |
| <b>Issue date</b>  | 19-Aug-2015 |
| <b>Version #</b>   | 01          |

**This data sheet contains changes from the previous version in section(s):**

1. Product and Company Identification: Alternate Trade Names
3. Composition / Information on Ingredients: Ingredients

**Manufacturer information**

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Direct 1-650-857-5020

**Explanation of abbreviations**

|               |   |
|---------------|---|
| <b>ACGIH</b>  | American Conference of Governmental Industrial Hygienists           |
| <b>CAS</b>    | Chemical Abstracts Service  |
| <b>CERCLA</b> | Comprehensive Environmental Response Compensation and Liability Act |
| <b>CFR</b>    | Code of Federal Regulations   |
| <b>COC</b>    | Cleveland Open Cup  |
| <b>DOT</b>    | Department of Transportation  |
| <b>EPCRA</b>  | Emergency Planning and Community Right-to-Know Act (aka SARA)       |
| <b>IARC</b>   | International Agency for Research on Cancer                         |
| <b>NIOSH</b>  | National Institute for Occupational Safety and Health               |
| <b>NTP</b>    | National Toxicology Program   |
| <b>OSHA</b>   | Occupational Safety and Health Administration                       |
| <b>PEL</b>    | Permissible Exposure Limit  |
| <b>RCRA</b>   | Resource Conservation and Recovery Act                              |
| <b>REC</b>    | Recommended   |
| <b>REL</b>    | Recommended Exposure Limit  |
| <b>SARA</b>   | Superfund Amendments and Reauthorization Act of 1986                |
| <b>STEL</b>   | Short-Term Exposure Limit   |
| <b>TCLP</b>   | Toxicity Characteristics Leaching Procedure                         |
| <b>TLV</b>    | Threshold Limit Value   |
| <b>TSCA</b>   | Toxic Substances Control Act  |
| <b>VOC</b>    | Volatile Organic Compounds  |