



# SAFETY DATA SHEET

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

**Identification of the substance/preparation** CR291Series  
**Use of the substance/preparation** Inkjet printing  
**Issue date** 19-Aug-2015  
**Version #** 01  
**CAS #** Mixture  
**Company identification** HP Colombia SAS  
Carrera 7 No 99-53 Torre B Pisos 7  
Bogota, Colombia  
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## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

**Physical hazards** Not classified.  
**Health hazards** Acute toxicity, oral Category 1  
Specific target organ toxicity, single exposure Category 1 (central nervous system, heart, kidney, respiratory system)  
Specific target organ toxicity, repeated exposure Category 1 (central nervous system, heart, respiratory system)  
**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

## 4. FIRST AID MEASURES

**Inhalation** Move to fresh air. If symptoms persist, get medical attention.  
**Skin contact** 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.

## 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.

## 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).

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Provide good ventilation. Wear personal protective equipment. 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. Store in closed original container in a dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

#### Colombia. OELs. Resolution No. 02400: Norms Concerning Working Conditions, Health and Safety in the Workplace

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

#### 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).

**Skin and body protection** Wear suitable protective clothing and eye/face protection.  
Remove and wash contaminated clothing before re-use.

**General** Avoid contact with the skin and the eyes. Wear suitable protective equipment.

**Hygiene measures** When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Liquid.

<b>Physical state</b>	Not available.
<b>Color</b>	Black.
<b>Odor</b>	Odorless
<b>pH</b>	6.8 - 7.7
<b>Melting point/Freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	Not available.
<b>Flash point</b>	230.0 °F (110.0 °C)
<b>Auto-ignition temperature</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.

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## 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. 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.

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## 11. TOXICOLOGICAL INFORMATION

<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>Colombia. OELs. Resolution No. 02400: Norms Concerning Working Conditions, Health and Safety in the Workplace</b>	
Ethylene glycol (CAS 107-21-1)	A4 Not classifiable as a human carcinogen.
<b>Germ cell mutagenicity</b>	Not available.
<b>Toxic to reproduction</b>	Not available.
<b>Aspiration hazard</b>	Not available.

<b>Toxicological data</b>		
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
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
	Mouse	14.6 g/kg

Components	Species	Test Results
	Rat	5.89 g/kg
<i>Other</i>		
LD50	Mouse	5.8 g/kg
	Rat	2800 mg/kg
<b>Toxicological information</b>	Complete toxicity data are not available for this specific formulation	

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological data

Components	Species	Test Results
Ethylene glycol (CAS 107-21-1)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 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

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Environmental effects** Not available.

**Persistence / degradability** Not available.

### Bioaccumulation

#### Bioaccumulative potential

#### Octanol/water partition coefficient log Kow

Ethylene glycol	-1.36
Glycerin	-1.76

**Mobility** Not available.

## 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**

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

**ADR****Basic shipping requirements:**

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

**DOT****IATA; IMDG****ADR**

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**15. REGULATORY INFORMATION****Federal regulations****International regulations**

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

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Stockholm Convention**

Not applicable.

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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.

**Prepared by**

HP

**Issue date**

19-Aug-2015

**Version #**

01

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

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

**Manufacturer information**

HP  
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Palo Alto, CA 94304-1112 US  
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