



# MATERIAL SAFETY DATA SHEET

## 1. Product and company identification

**Product name** CR290Series  
**Recommended use** Inkjet printing  
**Limitations on use** Not available.  
**Issue date** 19-Aug-2015  
**Version #** 01  
**Company identification** Limited Liability Company HP Inc  
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## 2. Hazards identification

**Hazard classification**

**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.

**Label elements**

**Symbols** None.

**Signal word** None.

**Hazard statement** Not available.

**Precautionary statement**

**Prevention** Not available.

**Response** Not available.

**Storage** Not available.

**Disposal** Not available.

**Other hazards** None known.

## 3. Composition/information on ingredients

<b>Substance or mixture</b>	Mixture		
<b>Chemical property</b>		<b>CAS Number</b>	<b>Concentration (%)</b>
Proprietary Component		Proprietary	< 30
Proprietary Component		Proprietary	< 30
Glycerin		56-81-5	20-40
Ethylene glycol		107-21-1	2.5 - 10
Proprietary Component		Proprietary	< 30

## 4. First aid measures

### First aid measures for different exposure routes

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

<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>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>Most important symptoms and effects</b>	Not available.
<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>General fire hazards</b>	Not available.
<b>Suitable extinguishing media</b>	CO2, water, dry chemical, or foam
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards during fire fighting</b>	None.
<b>Special fire fighting procedures</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Personal protective equipment for fire-fighting</b>	None.

## 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>Clean-up methods and materials and containment measures</b>	Wipe up with adsorbent material (e.g. cloth, fleece).

## 7. Handling and storage

<b>Handling</b>	
<b>Safe handling advice</b>	Avoid contact with skin, eyes and clothing.
<b>Storage</b>	
<b>Technical measures</b>	Keep out of the reach of children. Keep away from excessive heat or cold.
<b>Incompatible materials</b>	Not available.

## 8. Exposure controls/personal protection

### Occupational exposure limits

**Russian Federation. Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.**

Components	Type	Value	Form
Ethylene glycol (CAS 107-21-1)	Ceiling	10 mg/m3	Vapor and aerosol.
	TWA	5 mg/m3	Vapor and aerosol.

### Personal protective equipment

<b>General</b>	Avoid contact with the skin and the eyes. Wear suitable protective equipment.
<b>Engineering measures</b>	Provide adequate ventilation.
<b>Personal protective equipment</b>	
<b>Respiratory protection</b>	Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection.
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Eye protection</b>	Wear safety glasses; chemical goggles (if splashing is possible).
<b>Skin and body protection</b>	Wear suitable protective clothing and eye/face protection. Remove and wash contaminated clothing before re-use.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Not available.
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<b>Color</b>	Black.
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not available.
<b>pH</b>	6.8 - 7.7
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	230.0 °F (110.0 °C)
<b>Heat of combustion</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Solubility</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.

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## 10. Stability and reactivity

<b>Stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None.
<b>Incompatible materials</b>	oxidizing agents
<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.

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## 11. Toxicological information

<b>Carcinogenicity</b>	Proprietary component 1 is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans).
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**Russian Federation. Sanitary-Epidemiological Rules, 1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008**

Not listed.

<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
	Rat	5.89 g/kg
<i>Other</i>		
LD50	Mouse	5.8 g/kg
	Rat	2800 mg/kg

## 12. Ecological information

<b>Ecotoxicity</b>	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.
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<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulation</b>	
<b>Bioaccumulative potential</b>	
<b>Octanol/water partition coefficient log Kow</b>	
Ethylene glycol	-1.36
Glycerin	-1.76
<b>Mobility in soil</b>	Not available.
<b>Other hazardous effects</b>	Not available.

### 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

## 13. Disposal considerations

<b>Local disposal regulations</b>	Do not allow this material to drain into sewers/water supplies. Dispose of in compliance with federal, state, and local regulations.
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## 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

## 15. Regulatory information

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

**Russian Federation. Sanitary-Epidemiological Rules, 1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008**

Not listed.

**Ministry of Health and Social Development of Russian Federation. Order № 83 of 16.08.2004. List of hazardous and/or dangerous production factors and work under which preliminary and periodic medical examinations are conducted, methods of the examinations.**

Not listed.

**Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.**

Ethylene glycol (CAS 107-21-1)

Listed.

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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.

### Issue date

19-Aug-2015

### Version #

01

### 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