



MATERIAL SAFETY DATA SHEET

1. Product and company identification

Product name CR291Series
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

Substance or mixture	Mixture		
Chemical property		CAS Number	Concentration (%)
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.

Ingestion	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.
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
Eye contact	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.
Most important symptoms and effects	Not available.
Notes to physician	Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

Flash point	230.0 °F (110.0 °C)
General fire hazards	Not available.
Suitable extinguishing media	CO2, water, dry chemical, or foam
Unsuitable extinguishing media	None known.
Specific hazards during fire fighting	None.
Special fire fighting procedures	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Personal protective equipment for fire-fighting	None.

6. Accidental release measures

Personal precautions	Ensure adequate ventilation. Wear appropriate personal protective equipment. Avoid inhalation of vapors and contact with skin and eyes.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
Clean-up methods and materials and containment measures	Wipe up with adsorbent material (e.g. cloth, fleece).

7. Handling and storage

Handling	
Safe handling advice	Avoid contact with skin, eyes and clothing.
Storage	
Technical measures	Keep out of the reach of children. Keep away from excessive heat or cold.
Incompatible materials	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

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

9. Physical and chemical properties

Appearance

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

10. Stability and reactivity

Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	None.
Incompatible materials	oxidizing agents
Hazardous decomposition products	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Carbon monoxide and carbon dioxide.

11. Toxicological information

Carcinogenicity	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.

Components	Species	Test Results
Ethylene glycol (CAS 107-21-1)		
Acute		
<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

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

Ecotoxicological data

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

13. Disposal considerations

Local disposal regulations	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

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

IATA

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	No.
Special precautions for user	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

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.

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.

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Version

01

Manufacturer information

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Explanation of abbreviations

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