



SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture CR291Series
Synonyms None.
Version # 01
Issue date 19-Aug-2015
CAS # Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Inkjet printing

Uses advised against None known.

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2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral Category 1

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Ethylene glycol, Glycerin, Proprietary Component, Proprietary Component, Proprietary Component

Hazard pictograms None.

Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

Prevention Not available.

Response Not available.

Storage Not available.

Disposal Not available.

Supplemental label information None.

2.3. Other hazards None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Components	CAS #	Percent	EC-No.
Glycerin	56-81-5	20-40	200-289-5
Proprietary Component	Proprietary	< 30	
Proprietary Component	Proprietary	< 30	
Proprietary Component	Proprietary	< 30	

Components	CAS #	Percent	EC-No.
Ethylene glycol	107-21-1	2.5 - 10	203-473-3

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.
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.
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.
Notes to physician	Treat symptomatically. Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES

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

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.
Methods for cleaning up	Wipe up with adsorbent material (e.g. cloth, fleece).

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Provide good ventilation. Wear personal protective equipment. Avoid inhalation of vapors and contact with skin and eyes.
Storage	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

Turkey. MAK (Ordinance No. 1475 on Precautions Required in Workplaces Working with Flammable, Explosive, Dangerous and Harmful Substances, Annexes 1-3 (1973))

Components	Type	Value
Ethylene glycol (CAS 107-21-1)	MAK	740 mg/m3
		200 ppm

Turkey. OELs. Regulation on Protection of Health & Safety Measures from Risks related to Chemical Agents at Work, Annex I, Indicative Occupational Exposure Limit Values

Components	Type	Value
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m3
	TWA	40 ppm
		52 mg/m3
		20 ppm

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.

Turkey OELs: Skin designation:

Ethylene glycol (CAS 107-21-1)

Can be absorbed through the skin.

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

Physical state Not available.

Color Black.

Odor Odorless

Odor threshold Not available.

pH 6.8 - 7.7

Boiling point Not available.

Flash point 230.0 °F (110.0 °C)

Flammability limits in air, upper, % by volume Not available.

Flammability limits in air, lower, % by volume Not available.

Vapor pressure Not available.

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Viscosity Not available.

Vapor density Not available.

Evaporation rate Not available.

Melting point/Freezing point Not available.

Auto-ignition temperature Not available.

VOC Not available.

10. STABILITY AND REACTIVITY

Conditions to avoid Not available.

Hazardous decomposition products Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Carbon monoxide and carbon dioxide.

Stability Stable under recommended storage conditions.

Materials to avoid oxidizing agents

Hazardous polymerization None known.

11. TOXICOLOGICAL INFORMATION

Toxicological information Complete toxicity data are not available for this specific formulation

Skin corrosion/irritation Not available.

Serious eye damage/eye irritation Not available.

Skin sensitizer Not available.

Respiratory sensitizer Not available.

Carcinogenicity Proprietary component 1 is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans).

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not available.

Toxicological data

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.

Environmental effects Not available.

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Ethylene glycol -1.36
 Glycerin -1.76

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

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

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

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

DOT



IATA; IMDG





15. REGULATORY INFORMATION

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

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
This data sheet contains changes from the previous version in section(s): 1. Product and Company Identification: Alternate Trade Names
Composition/Information on Ingredients

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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