



SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name CR291Series
Recommended use Inkjet printing
Issue date 19-Aug-2015
Version # 01
CAS # Mixture
Company identification HP PPS Australia Pty Ltd
353 Burwood Hwy L1
Forest Hill, Victoria, Australia 3131
Telephone +61 3 8833 5000

HP health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com
Poison Information Centre 131 126 (24 hours)

2. HAZARDS IDENTIFICATION

Classification of the hazardous chemical

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

GHS label elements

Symbols None.
Signal words 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.
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

Suitable extinguishing media	CO ₂ , 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.
HAZCHEM code	None.
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).
Other information	Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

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****US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m ³	Aerosol.

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value	Form
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m ³	
	TWA	40 ppm 10 mg/m ³ 20 ppm	
Glycerin (CAS 56-81-5)	TWA	10 mg/m ³	Inhalable mist.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m ³	Vapor.
	TWA	40 ppm 52 mg/m ³ 10 mg/m ³ 20 ppm	Vapor. Vapor. Particulate. Vapor.
Glycerin (CAS 56-81-5)	TWA	10 mg/m ³	Inspirable dust.

Biological limit values No biological exposure limits noted for the ingredient(s).**Recommended monitoring procedures****Additional exposure data** No exposure standard allocated**Australia 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

Vapor pressure Not available.

Boiling point Not available.

Melting point/Freezing point Not available.

Solubility (water) Not available.

Specific gravity 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.

Auto-ignition temperature Not available.

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Not available.

Materials to avoid 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.

Hazardous polymerization None known.

11. TOXICOLOGICAL INFORMATION

Routes of exposure Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation

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

Respiratory or skin sensitization

Skin sensitization Not available.

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

Aspiration toxicity 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

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)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 8050 mg/l, 96 hours
Glycerin (CAS 56-81-5)		
Aquatic		
Fish	LC50	Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>) 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.

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Ethylene glycol	-1.36
Glycerin	-1.76

Environmental effects 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

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

HAZCHEM code None.

DOT



IATA; IMDG



ADR

15. REGULATORY INFORMATION

National regulations No information available.

Australia HVIC: Listed substance

Ethylene glycol (CAS 107-21-1) Listed.
 Glycerin (CAS 56-81-5) Listed.

Australia Medicines & Poisons Schedule 5: Use/Concentration/Exceptions

Ethylene glycol (CAS 107-21-1) in preparations containing not less than 10 mg/kg of denatonium benzoate as a bittering agent Exception may apply, see the regulation for relevance.

Australia Medicines & Poisons Schedule 6: Use/Concentration/Exceptions

Ethylene glycol (CAS 107-21-1) Exception may apply, see the regulation for relevance.

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

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

Manufacturer information

HP
1501 Page Mill Road
Palo Alto, CA 94304-1112 US
Direct 1-650-857-5020

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