



SAFETY DATA SHEET

1. Identification

Product name CV119Series

Recommended use and Limitations on use

Recommended use Inkjet printing

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2. Hazards identification

GHS classification

Physical hazards Flammable liquids Category 2

Health hazards Serious eye damage/eye irritation Category 1

Environmental hazards Not classified.

GHS label elements

Pictograms



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Causes serious eye damage.

Precautionary statement

Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
P242 - Use only non-sparking tools.

Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378 - In case of fire: Use sand, carbon dioxide (CO₂) or dry chemical to extinguish.

Storage

P403 + P235 - Store in a well-ventilated place. Keep cool. P403 + P235 - Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical property

Chemical name	CAS Number	Concentration (%)
ethanol	64-17-5	<80

	CAS Number	Concentration (%)
Black Colorant	Proprietary	<15
n-Propyl Alcohol	71-23-8	<10
Acetone	67-64-1	<7.5

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	Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If irritation persists get medical attention.
Ingestion	If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.
Most important symptoms/effects, acute and delayed	Not available.
Personal protection for first-aid responders	Not available.
Notes to physician	Not available.

5. Fire-fighting measures

Flash point	< 41.0 °F (< 5.0 °C) Cleveland Closed Cup
Extinguishing media	Suitable extinguishing media: sand, carbon dioxide (CO2) or dry chemical.
Extinguishing media to avoid	None.
Specific hazards during fire fighting	None.
Special fire fighting procedures	Containers can build up pressure if exposed to heat (fire). Use water spray to cool unopened containers.
Protection of fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Evacuate the area promptly. Do not touch or walk through spilled material. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Wear appropriate personal protective equipment.
Environmental precautions	Avoid release to the environment. Refer to special instructions/safety data sheets.
Spill cleanup methods	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

7. Handling and storage

Handling	
Precautions	Not available.
Safe handling advice	Do not handle or store near an open flame, heat or other sources of ignition. Use only with adequate ventilation. Take precautionary measures against static discharges.
Storage	
Incompatible materials	Not available.
Storage	Keep container closed when not in use. Keep away from heat and sources of ignition. Keep only in original container.

8. Exposure controls/personal protection

Control parameters/Occupational exposure limits

Singapore. PELs. (Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order)

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	2380 mg/m3 1000 ppm
	TWA	1780 mg/m3 750 ppm
	TWA	1880 mg/m3
ethanol (CAS 64-17-5)	TWA	1880 mg/m3

Singapore. PELs. (Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order)

Components	Type	Value
n-Propyl Alcohol (CAS 71-23-8)	STEL	1000 ppm 614 mg/m3
	TWA	250 ppm 492 mg/m3 200 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
ethanol (CAS 64-17-5)	STEL	1000 ppm
n-Propyl Alcohol (CAS 71-23-8)	TWA	100 ppm

Appropriate engineering control measures

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Explosion proof exhaust ventilation should be used.

Personal protective equipment**Respiratory protection**

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Skin protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Eye/face protection

Wear eye/face protection.

Thermal hazards

Not available.

Hygiene measures

Not available.

9. Physical and chemical properties**Appearance**

Physical state Liquid.

Color Black.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Boiling point, initial boiling point, and boiling range 173.3 °F (78.5 °C)

Flash point < 41.0 °F (< 5.0 °C) Cleveland Closed Cup

Auto-ignition temperature Not available.

Flammability (solid, gas) Not available.

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0 hPa @ 20°C

Vapor density Not available.

Evaporation rate Not available.

Relative density Not available.

Solubility Not available.

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

Decomposition temperature Not available.

Viscosity Not available.

Other data

VOC (Weight %) < 743 g/L

10. Stability and reactivity

Reactivity	Not available.
Stability	Stable under normal storage conditions.
Conditions to avoid	No information available.
Incompatible materials	None.
Hazardous decomposition products	Decomposition of this product may yield metallic oxides. Carbon monoxide and carbon dioxide. Hydrogen fluoride.
Possibility of hazardous reactions	Will not occur.

11. Toxicological information

Routes of exposure	Not available.
Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitizer	Based on available data, the classification criteria are not met.
Skin sensitizer	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Toxic to reproduction	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Other information	Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	20000 mg/kg 20 ml/kg
<i>Inhalation</i>		
LC50	Rat	76 mg/l, 4 Hours 50.1 mg/l, 8 Hours
<i>Oral</i>		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
<i>Other</i>		
LD50	Mouse	1297 mg/kg
	Rat	5500 mg/kg
ethanol (CAS 64-17-5)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 ppm, 10 Hours
<i>Oral</i>		
LD50	Dog	5.5 g/kg

Components	Species	Test Results
	Guinea pig	5.6 g/kg
	Mouse	3450 mg/kg
	Rat	6.2 g/kg
<i>Other</i>		
LD50	Mouse	933 mg/kg
	Rat	1440 mg/kg
n-Propyl Alcohol (CAS 71-23-8)		
Acute		
<i>Oral</i>		
LD50	Mouse	6800 mg/kg
	Rabbit	2.8 g/kg
	Rat	1.87 g/kg
<i>Other</i>		
LD50	Mouse	3125 mg/kg
	Rat	590 mg/kg

12. Ecological information

Aquatic toxicity This product has not been tested for ecological effects.

Ecotoxicity

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 4740 - 6330 mg/l, 96 hours
ethanol (CAS 64-17-5)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours
n-Propyl Alcohol (CAS 71-23-8)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 3339 - 3977 mg/l, 48 hours
Fish	LC50	Bleak (Alburnus alburnus) 3000 - 4000 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Acetone	-0.24
ethanol	-0.31
n-Propyl Alcohol	0.25

Mobility Not available.

Other hazardous effects Not available.

13. Disposal considerations

Disposal methods/information Do not dispose of together with general office waste.
Do not allow this material to drain into sewers/water supplies.
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
Ensure collection and disposal with an appropriately licensed waste contractor.

Special precautions Not available.

14. Transport information

DOT

UN number UN1210

UN proper shipping name Printing Ink (Ethanol, Acetone)
Transport hazard class(es)
 Class 3
 Subsidiary risk -
Packaging group II
Special precautions for user Not available.

IATA

UN number UN1210
UN proper shipping name Printing Ink (Ethanol, Acetone)
Transport hazard class(es)
 Class 3
 Subsidiary risk -
Packing group II
Environmental hazards No.
Special precautions for user Not available.

IMDG

UN number UN1210
UN proper shipping name Printing Ink (Ethanol, Acetone)
Transport hazard class(es)
 Class 3
 Subsidiary risk -
Packing group II
Environmental hazards
 Marine pollutant No.
EmS Not available.
Special precautions for user Not available.

ADR

Proper shipping name Printing Ink (Ethanol, Acetone)
Hazard class 3
UN number UN1210
Packing group II

DOT



IATA; IMDG





ADR

15. Regulatory information

Applicable regulations

Basel Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Rotterdam Convention

Not applicable.

Stockholm Convention

Not applicable.

Regulatory information

The components of this product are reported in the following inventories: United States of America, European Union, Canada, Australia, Philippines, Ontario, New Zealand, Japan, Switzerland and Korea.

16. Other information

References

Not available.

Issued by

Not available.

Prepared by

HP

Disclaimer

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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