



# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name or designation of the mixture** CH157Series  
**Registration number** -  
**Synonyms** ColorSpan 0900700-101  
**Issue date** 11-Mar-2016  
**Version number** 01

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

**Identified uses** Inkjet printing.  
**Uses advised against** None known.

**Company identification** HPCP - Computing and Printing Portugal, Unipessoal, Lda.  
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Telephone +351 21 482 85

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(Toll-free within the US) 1-800-457-4209  
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Email: hpcustomer.inquiries@hp.com  
Emergency number 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

#### Health hazards

Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2  
Carcinogenicity Category 2

#### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard Category 3

### 2.2. Label elements

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

**Contains:** 2-pyrrolidone, Alkyldiol, Diethanolamine, Dyes, Glycerol, Glycerol Ethoxylate, Isopropyl alcohol, Minor Ingredients, Water  
**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** Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2-pyrrolidone	<15	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
<b>Classification:</b>	Eye Irrit. 2;H319				
Dyes	1-5	Proprietary -	-	-	
<b>Classification:</b>	-				
Alkyldiol	<5	Proprietary -	01-2119987321-35-XXXX	-	
<b>Classification:</b>	Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335				
Glycerol Ethoxylate	<5	31694-55-0 500-075-4	-	-	
<b>Classification:</b>	-				
Isopropyl alcohol	<2.5	67-63-0 200-661-7	01-2119457558-25-XXXX	603-117-00-0	
<b>Classification:</b>	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336				
Diethanolamine	<2	111-42-2 203-868-0	-	603-071-00-1	
<b>Classification:</b>	-				
Glycerol	<2	56-81-5 200-289-5	-	-	
<b>Classification:</b>	Eye Irrit. 2;H319				
Minor Ingredients	<1		-	-	
<b>Classification:</b>	-				
Water	Balance	7732-18-5 231-791-2	-	-	
<b>Classification:</b>	-				

**SECTION 4: First aid measures****General information** Not available.**4.1. Description of first aid measures**

<b>Inhalation</b>	In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms persist, get medical attention.
<b>Skin contact</b>	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse.
<b>Eye contact</b>	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops or persists.
<b>Ingestion</b>	Rinse mouth out with water. Give several glasses of water. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. If symptoms persist, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed** Not available.

**4.3. Indication of any immediate medical attention and special treatment needed** Not available.

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## SECTION 5: Firefighting measures

**General fire hazards** Not available.

### 5.1. Extinguishing media

**Suitable extinguishing media** Use any media suitable for the surrounding fires.

**Unsuitable extinguishing media** Not available.

**5.2. Special hazards arising from the substance or mixture** Not available.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Not available.

**Special fire fighting procedures** Wear suitable protective equipment.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Avoid contact with skin. Do not touch or walk through spilled material. Use personal protective equipment to minimize exposure to skin and eye.

**For emergency responders** Not available.

**6.2. Environmental precautions** Do not flush into surface water or sanitary sewer system.

**6.3. Methods and material for containment and cleaning up** Clean-up methods - small spillage

**6.4. Reference to other sections** Not available.

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## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use personal protective equipment as required. Use only with adequate ventilation. When using, do not eat, drink or smoke.

**7.2. Conditions for safe storage, including any incompatibilities** Keep out of the reach of children. Keep tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Do not handle or store near an open flame, heat or other sources of ignition.

**7.3. Specific end use(s)** Not available.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value
Diethanolamine (CAS 111-42-2)	TWA	2 mg/m <sup>3</sup>
Glycerol (CAS 56-81-5)	TWA	10 mg/m <sup>3</sup>
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Not available.

## Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)	Consumers	Dermal	6 mg/kg bw/d	Systemic long term
		Dermal	167 mg/kg bw/d	Systemic acute short term
		Inhalation	17.1 mg/m <sup>3</sup>	Systemic long term
		Oral	5.2 mg/kg bw/d	Systemic long term
	Workers	Oral	33.3 mg/kg bw/d	Systemic acute short term
		Dermal	277 mg/kg bw/d	Systemic acute short term
		Dermal	10 mg/kg bw/d	Systemic long term
		Inhalation	57.8 mg/m <sup>3</sup>	Systemic long term

## Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
2-pyrrolidone (CAS 616-45-5)	Not applicable	Freshwater	0.5 mg/l	
		Intermittant	0.5 mg/l	Releases
		Marine water	0.05 mg/l	
		Sediment	0.4205 mg/kg	Freshwater
		Soil	0.0612 mg/kg	
		STP	10 mg/l	Sewage Treatment Plant

## Exposure guidelines

### Portugal VLEs Norm on Occupational Exposure: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

### US. ACGIH Threshold Limit Values

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

## 8.2. Exposure controls

**Appropriate engineering controls** Not available.

### Individual protection measures, such as personal protective equipment

**General information** Not available.

**Eye/face protection** Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

#### Skin protection

- **Hand protection** Wear appropriate chemical resistant gloves.

- **Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Under normal conditions, respirator is not normally required. Provide adequate ventilation.

**Thermal hazards** Not available.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.  
When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.  
Launder contaminated clothing before reuse.

**Environmental exposure controls** Not available.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state** Liquid.

**Color** Cyan

**Odor** slight solvent

**Odor threshold** Not available.

**pH** 7 - 9  
7 - 9

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** 212 °F (100 °C)

**Flash point** Not flammable

<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</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>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble
<b>Solubility (other)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.
<b>9.2. Other information</b>	
<b>Chemical family</b>	Water/Glycol/Dye Blend
<b>VOC (Weight %)</b>	161.2 g/L

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## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Not available.
<b>10.2. Chemical stability</b>	Stable under normal storage conditions.
<b>10.3. Possibility of hazardous reactions</b>	None known.
<b>10.4. Conditions to avoid</b>	Avoid high temperatures.
<b>10.5. Incompatible materials</b>	Strong oxidizing agents.
<b>10.6. Hazardous decomposition products</b>	Not available.

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## SECTION 11: Toxicological information

**General information** Not available.

### 11.1. Information on toxicological effects

**Skin corrosion/irritation** Not available.

**Serious eye damage/eye irritation** Not available.

**Respiratory sensitization** Not available.

**Skin sensitization** Not available.

**Germ cell mutagenicity** Not available.

### Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Diethanolamine (CAS 111-42-2) 2B Possibly carcinogenic to humans.

**Reproductive toxicity** Not available.

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** Not available.

**Aspiration hazard** Not available.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
2-pyrrolidone (CAS 616-45-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Guinea pig	6500 mg/kg

Components	Species	Test Results
	Rat	6500 mg/kg
Diethanolamine (CAS 111-42-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	11.9 ml/kg
<i>Oral</i>		
LD50	Rat	710 mg/kg 1.82 g/kg
<i>Other</i>		
LD50	Mouse	2300 mg/kg
Isopropyl alcohol (CAS 67-63-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	12800 mg/kg
<i>Oral</i>		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5.03 g/kg
	Rat	4.7 g/kg
<i>Other</i>		
LD50	Mouse	1509 mg/kg
	Rat	1099 mg/kg
<b>Mixture versus substance information</b>	Not available.	
<b>Other information</b>	Complete toxicity data are not available for this specific formulation	

## SECTION 12: Ecological information

**12.1. Toxicity** Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia pulex) 13.21 mg/l, 48 hours
Diethanolamine (CAS 111-42-2)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Ceriodaphnia dubia) 61.8 - 86.04 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 100 mg/l, 96 hours
Glycerol (CAS 56-81-5)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 51000 - 57000 mg/l, 96 hours
Isopropyl alcohol (CAS 67-63-0)		
<b>Aquatic</b>		
Fish	LC50	Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours
<i>Acute</i>		
Algae	EC50	Algae > 1000 mg/l, 72 hours
Crustacea	EC50	Daphnia 13299 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 9460 mg/l, 96 hours
<b>12.2. Persistence and degradability</b>	Not available.	
<b>12.3. Bioaccumulative potential</b>	Not available.	

**Partition coefficient  
n-octanol/water (log Kow)**

2-pyrrolidone	-0.85
Diethanolamine	-1.43
Glycerol	-1.76
Isopropyl alcohol	0.05

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** Not available.

**12.5. Results of PBT  
and vPvB  
assessment** Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** Not available.

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Residual waste** Not available.

**Contaminated packaging** Not available.

**EU waste code** Not available.

**Disposal  
methods/information** Dispose of in compliance with federal, state, and local regulations. Do not allow this material to drain into sewers/water supplies.

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**SECTION 14: Transport information**

**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**ADR**

Not regulated as dangerous goods.

**Further information** Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

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**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**

Not listed.

**Authorizations**

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization**

Not listed.

## Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**

Not regulated.

## Other EU regulations

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**

Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Diethanolamine (CAS 111-42-2)

**Directive 94/33/EC on the protection of young people at work**

Diethanolamine (CAS 111-42-2)

**National regulations** Not available.

**15.2. Chemical safety assessment** Not available.

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## SECTION 16: Other information

**References** Not available.

**Information on evaluation method leading to the classification of mixture** Not available.

**Issue date** 11-Mar-2016

**Revision information** 1. Product and Company Identification: Alternate Trade Names  
Composition/Information on Ingredients

**Training information** Not available.

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Product Information 1-800-925-0563



## 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

**List of abbreviations** Not available.

## Safe Use of Mixture Information (SUMI)

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### Solvent based inks: SB01 \*English\*

#### Disclaimer

*This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.*

*The REACH registration number(s), where applicable, completes an extended product SDS.*

#### Operational conditions

**Maximum duration** Up to 8 hours per day

**Frequency of exposure** < 240 days per year

**Process conditions**

- Covers use at ambient temperatures.
- Use of an integrated local exhaust ventilation is required in drying zone.
- Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace.
- Use explosion proof electrical equipment.
- Keep emissions below the occupational exposure limits of the ingredients specified in section 8 of the SDS.
- Avoid direct contact.
- Regular cleaning of equipment and work area.
- Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions followed.

#### Risk management measures

**Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation**

- Wear safety glasses with side shields (or goggles), if splashing is possible.
- Wear appropriate chemical resistant gloves: see section 8 of the SDS.
- Wear appropriate chemical resistant clothing.
- In case of inadequate ventilation wear respiratory protection.
- Eye wash fountain and emergency showers are recommended.
- Avoid breathing mist/vapours.
- Avoid contact with skin, eyes and clothing.
- Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.



#### Good practice advice

- Use personal protective equipment as required.
- Wash hands before breaks and after work.
- Keep good industrial hygiene and safety practice.
- Use only with adequate ventilation.
- Do no eat, drink or smoke when using this product.
- Wash contaminated clothing before reuse.
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- Store in a well-ventilated place.
- Keep container tightly closed.
- Store at room temperature.



#### Environmental measures

- 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 appropriately licenced waste contractor.

#### Use descriptors

IS-Use at industrial sites

PW-Widespread use by professional workers

SU7-Printing and reproduction media

PC18-Inks and Toners

PROC1-Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2-Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3- Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities

ERC5-Use at industrial site leading to inclusion into/onto article

ERC8c-Widespread use leading to inclusion into/onto article (indoor)

#### Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture is provided.

The classification of the mixture is based on the individual ingredients and their concentration within the mixture.

All ingredients contributing to the classification are stated in Section 3 of the SDS.

Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.

The product may contain sensitizing ingredients that may cause allergic reaction to certain people.

Section 2 of the SDS states these ingredients where applicable.