C6657 Series[M]-SDS_UK-English-11.pdf

C6657 Series[Y]-SDS_UK-English-11.pdf



SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C6657 Series[M]

designation of the mixture

Registration number N/A **Synonyms** None. **Issue date** 13-Jun-2013

Version number 02

Revision date 18-Sep-2013 Supersedes date 13-Jun-2013

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 Hewlett-Packard, Ltd.

Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 44 (0) 879 013 0790

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 1-503-494-7199 **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 Center 0207771 5307

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Emergency overview Contact with skin and eyes may result in irritation.

Causes skin irritation.

Hazard summary

Physical hazards Not classified for physical hazards. **Health hazards** Not classified as a health hazard.

Environmental hazards Not classified for hazards to the environment.

Specific hazards Not available. Main symptoms Not available.

2.2. Label elements

Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains: 1,5-pentanediol, 2-pyrrolidone, Alkyldiol ethoxylate, Amino alkyldiol, Ammonium nitrate, Ethyl

alkyldiol, Metal nitrate # 2, Substituted napthalenesulfonate salt #8, Water

R-phrase(s) Not available. Not available. S-phrase(s) **Authorization number** Not available. Supplemental label Not applicable.

2.3. Other hazards

information

Potential routes of overexposure to this product are skin and eye contact Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use

conditions. Complete toxicity data are not available for this specific formulation

Material name: C6657 Series[M] SDS UK 1/8

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Note
Water		> 60	7732-18-5 231-791-2	-	-	
Classification:	DSD:	-				
	CLP:	-				
1,5-pentanediol		< 10	111-29-5 203-854-4	-	-	
Classification:	DSD:	-				
	CLP:	-				
Ethyl alkyldiol		< 10	Proprietary 201-074-9	-	-	
Classification:	DSD:	-				
	CLP:	-				
2-pyrrolidone		< 7.5	616-45-5 210-483-1	-	-	
Classification:	DSD:	Xi;R36				
	CLP:	Eye Irrit. 2;H31	9			
Metal nitrate # 2		< 7.5	Proprietary 233-826-7	-	-	
Classification:	DSD:	Xi;R36				
	CLP:	Eye Irrit. 2;H31	.9			
Substituted napthalenesulfonate salt #8		salt < 5	Proprietary -	-	-	
Classification:	DSD:	-				
	CLP:	-				
Alkyldiol ethoxylate		< 2.5	Proprietary -	-	-	
Classification:	DSD:	Xn;R21/22, Xi;F	R38-41, N;R51/53			
	CLP:	Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315, Eye Dam. 1;H318, Aquatic Chronic 2;H411				
Amino alkyldiol		< 2.5	Proprietary 201-064-4	-	-	
Classification:	DSD:	-				
	CLP:	-				
Ammonium nitrate		< 2.5	6484-52-2 229-347-8	-	-	
Classification:	DSD:	O;R7-R8, Xi;R3	6/37/38			
	CLP:	Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335				

Composition comments

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and

1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

Material name: C6657 Series[M] SDS UK Version No.: 02 Revision date: 18-Sep-2013 Print date: 18-Sep-2013

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SECTION 4: First aid measures

General information Not available.

4.1. Description of 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. Immediately flush with large amounts of clean, warm water (low pressure) for at

least 15 minutes or until particles are removed. If irritation persists get medical attention.

Ingestion If ingestion of a large amount does occur, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Not available.

4.3. Indication of any immediate medical attention

No notes to physicians.

and special treatment

needed

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing

For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.

For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

Unsuitable extinguishing

media

media

None known.

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

Not available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders

Not available.

6.2. Environmental

precautions

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for

Not available.

containment and cleaning up

6.4. Reference to other

Not available.

sections

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any

Keep out of the reach of children. Keep away from excessive heat or cold.

incompatibilities

Not available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

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

Material name: C6657 Series[M] 3/8

Recommended monitoring

procedures

Not available.

Derived no-effect level

(DNEL)

Not available.

Predicted no effect

concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment to minimize exposure to skin and eye.

Eye/face protection Not available.

Skin protection

- Hand protection Not available. - Other Not available. **Respiratory protection** Not available. Thermal hazards Not available.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Not available.

Physical state Liquid.

Form Not available. Color Magenta Odor Not available. Not available. **Odor threshold** 6.2 - 6.8Melting point/freezing point Not available.

Initial boiling point and

boiling range

Not determined

Flash point >= 200.00 °F (>= 93.33 °C) Pensky-Martens Closed Cup

Evaporation rate Not determined Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Flammability limit - lower Not determined

(%)

Flammability limit -

upper (%)

Vapor pressure

Not available.

Not determined

Relative density Not available. Solubility(ies) Soluble in water **Partition coefficient** Not available.

(n-octanol/water)

Decomposition temperature Not available. **Viscosity** >= 2 cp**Explosive properties** Not available. **Oxidizing properties** Not determined.

9.2. Other information

Specific gravity 1 - 1.2VOC (Weight %) < 349 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

10.2. Chemical stability Stable under recommended storage conditions.

Material name: C6657 Series[M] Print date: 18-Sep-2013 4/8 10.3. Possibility of hazardous Will not occur.

reactions

10.4. Conditions to avoid Not available.

10.5. Incompatible materials Incompatible with strong bases and oxidizing agents.

10.6. Hazardous Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

decomposition products dioxide and/or low molecular weight hydrocarbons.

SECTION 11: Toxicological information

General information Refer to Section 2 for potential health effects and Section 4 for first aid measures.

Information on likely routes of exposure

Not available. **Ingestion** Not available. **Inhalation** Skin contact Not available. **Eye contact** Not available. **Symptoms** Not available.

11.1. Information on toxicological effects

Acute toxicity

Components Test Results Species 2-pyrrolidone (CAS 616-45-5) **Acute**

Oral

LD50 Guinea pig 6500 mg/kg 6500 mg/kg Rat

Amino alkyldiol (CAS Proprietary)

Acute Oral

LD50 Rat 5900 mg/kg

Other

LD50 Mouse 3500 mg/kg

> Rat 2300 mg/kg

Ammonium nitrate (CAS 6484-52-2)

Acute

Inhalation

Rat LC50 > 88.8 mg/l, 4 Hours

Oral

LD50 Rat 2217 mg/kg

Skin corrosion/irritation No data available.

Serious eye damage/eye irritation

Not available.

Respiratory sensitization

Not available.

Skin sensitization

Carcinogenicity

Not available.

Germ cell mutagenicity

No information available.

Reproductive toxicity

Not available. Not available.

Specific target organ toxicity

- single exposure

Not available.

Specific target organ toxicity

- repeated exposure

Not available.

Aspiration hazard Mixture versus substance

Material name: C6657 Series[M]

information

Not available. Not available.

Other information

This ink formulation has not been tested for toxicological effects.

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

SECTION 12: Ecological information

12.1. Toxicity

12.1. Toxicity					
Product		Species	Test Results		
Magenta ink (CAS Mixture)					
Aquatic					
<i>Acute</i>					
Fish	LC50	Fathead minnow (Pimephales promelas)	< 400 mg/l, 96 hours		
Components		Species	Test Results		
2-pyrrolidone (CAS 616-45-5)					
Aquatic					
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours		
Ammonium nitrate (CAS 6484-52-	-2)				
Crustacea	EC50	Daphnia	100, 48 Hours		
Fish	LC50	Fish	100, 96 Hours		
Ethyl alkyldiol (CAS Proprietary)					
Crustacea	EC50	Daphnia	102, 48 Hours		
Fish	LC50	Fish	1000, 96 Hours		
Aquatic					
Crustacea	EC50	Water flea (Daphnia magna)	10330 - 16360 mg/l, 48 hours		
Fish	LC50	Bleak (Alburnus alburnus)	> 10000 mg/l, 96 hours		
12.2. Persistence and degradability	Not available.				
12.3. Bioaccumulative potential	No data available on bioaccumulation.				
Partition coefficient n-octanol/water (log Kow)					
2-pyrrolidone		-0.85			
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.				

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Not available. **Contaminated packaging** Not available. **EU** waste code Not available.

Disposal Do not allow this material to drain into sewers/water supplies.

methods/information Dispose of waste material according to Local, State, Federal, and Provincial Environmental

Regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service

is available in your location, please visit http://www.hp.com/recycle.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

Material name: C6657 Series[M] 6/8

IMDG

Not regulated as dangerous goods.

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

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

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

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

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

AMMONIUM NITRATE (AN) (CAS 6484-52-2)

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

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

Not regulated.

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

Not regulated.

Other regulations All chemical substances in this HP product have been notified or are exempt from notification

> under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea,

New Zealand, and China.

National regulations Not available. 15.2. Chemical Safety Not available.

Assessment

SECTION 16: Other information

Material name: C6657 Series[M]

References Not available.

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Full text of any statements or R-phrases and H-statements

under Sections 2 to 15

R7 May cause fire.

R8 Contact with combustible material may cause fire. R21/22 Harmful in contact with skin and if swallowed.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Revision information SECTION 11: Toxicological information: Mutagenicity

SECTION 11: Toxicological information: Corrosivity SECTION 11: Toxicological information: Aspiration hazard

Ecological Information: Ecotoxicity

SECTION 12: Ecological information: Aquatic toxicity

SECTION 12: Ecological information: 12.3. Bioaccumulative potential

GHS: Classification

Training information

Not available.

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Company. Data is the most current known to Hewlett-Packard Company 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.

Manufacturer information

Hewlett-Packard Company 3000 Hanover Street

Palo Alto, California 94304-1112 US

(Direct) 1-503-494-7199

(Toll-free within the US) 1-800-457-4209

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

Material name: C6657 Series[M] SDS UK



SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C6657 Series[Y]

designation of the mixture

Registration number N/A **Synonyms** None. **Issue date** 13-Jun-2013

Version number 02

Revision date 18-Sep-2013 Supersedes date 13-Jun-2013

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

Identified uses Not available. Uses advised against None known.

Company identification Hewlett-Packard, Ltd.

Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 44 (0) 879 013 0790

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 1-503-494-7199 **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 Center 0207771 5307

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Emergency overview Contact with skin and eyes may result in irritation.

Causes skin irritation.

Hazard summary

Physical hazards Not classified for physical hazards. **Health hazards** Not classified as a health hazard.

Environmental hazards Not classified for hazards to the environment.

Specific hazards Not available. Main symptoms Not available.

2.2. Label elements

Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains: 1,5-pentanediol, 2-pyrrolidone, Alkyldiol ethoxylate, Ammonium nitrate, Arylazopyrazolesulfonate

salt # 3, Ethyl alkyldiol, Metal nitrate # 2, Substituted napthalenesulfonate salt #12, Water

R-phrase(s) Not available. Not available. S-phrase(s) **Authorization number** Not available. Supplemental label Not applicable.

information

2.3. Other hazards Potential routes of overexposure to this product are skin and eye contact Inhalation of vapor and

ingestion are not expected to be significant routes of exposure for this product under normal use

conditions. Complete toxicity data are not available for this specific formulation

Material name: C6657 Series[Y] SDS UK 1/8

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Note
Water		> 60	7732-18-5 231-791-2	-	-	
Classification:	DSD:	-				
	CLP:	-				
1,5-pentanediol		< 10	111-29-5 203-854-4	-	-	
Classification:	DSD:	-				
	CLP:	-				
Ethyl alkyldiol		< 10	Proprietary 201-074-9	-	-	
Classification:	DSD:	-				
	CLP:	-				
2-pyrrolidone		< 7.5	616-45-5 210-483-1	÷	-	
Classification:	DSD:	Xi;R36				
	CLP:	Eye Irrit. 2;H31	9			
Metal nitrate # 2		< 7.5	Proprietary 233-826-7	-	-	
Classification:	DSD:	Xi;R36				
	CLP:	Eye Irrit. 2;H31	9			
Substituted napthalenesu #12	ılfonate	salt < 5	Proprietary 421-950-6	-	-	
Classification:	DSD:	-				
	CLP:	-				
Alkyldiol ethoxylate		< 2.5	Proprietary -	-	-	
Classification:	DSD:	Xn;R21/22, Xi;F	R38-41, N;R51/53			
	CLP:	Acute Tox. 4;H3 Chronic 2;H411		12, Skin Irrit. 2;H315, Eye Da	am. 1;H318, Aqu	atic
Ammonium nitrate		< 2.5	6484-52-2 229-347-8	-	-	
Classification:	DSD:	O;R7-R8, Xi;R3	6/37/38			
	CLP:	Skin Irrit. 2;H31	15, Eye Irrit. 2;H319,	STOT SE 3;H335		
Arylazopyrazolesulfonate	salt # 3	3 < 2.5	Proprietary 228-819-0	-	-	
Classification:	DSD:	-				
	CLP:	_				

Composition comments

This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and

1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

Material name: C6657 Series[Y] Version No.: 02 Revision date: 18-Sep-2013 Print date: 18-Sep-2013

SDS UK 2/8 SECTION 4: First aid measures

General information Not available.

4.1. Description of 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. Immediately flush with large amounts of clean, warm water (low pressure) for at

least 15 minutes or until particles are removed. If irritation persists get medical attention.

Ingestion If ingestion of a large amount does occur, seek 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

No notes to physicians.

needed

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing

For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.

For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

Unsuitable extinguishing

media

media

None known.

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

Not available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency

responders

Not available.

6.2. Environmental

precautions

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for

containment and cleaning up

Not available.

6.4. Reference to other

Not available.

sections

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any

incompatibilities

Keep out of the reach of children. Keep away from excessive heat or cold.

Not available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

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

Material name: C6657 Series[Y] 3/8

Recommended monitoring

procedures

Not available.

Derived no-effect level Not available.

(DNEL)

Not available.

Predicted no effect concentrations (PNECs)

8.2. Exposure controls

Appropriate engineering

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment to minimize exposure to skin and eye.

Eye/face protection Not available.

Skin protection

- Hand protection Not available. - Other Not available. **Respiratory protection** Not available. Thermal hazards Not available.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Not available.

Physical state Liquid.

Form Not available.

Color Yellow

Odor Not available.

Not available. **Odor threshold**

6.2 - 6.8

Melting point/freezing point

Initial boiling point and

Not available. Not determined

boiling range

Flash point >= 200.00 °F (>= 93.33 °C) Pensky-Martens Closed Cup

Evaporation rate Not determined Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not determined

(%)

Flammability limit -

Not available.

upper (%)

Not determined Vapor pressure **Relative density** Not available. Solubility(ies) Soluble in water **Partition coefficient** Not available.

(n-octanol/water)

Decomposition temperature

Not available. >= 2 cp

Viscosity Explosive properties Not available. **Oxidizing properties** Not determined.

9.2. Other information

Specific gravity 1 - 1.2VOC (Weight %) < 340 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

10.2. Chemical stability Stable under recommended storage conditions.

Material name: C6657 Series[Y] 4/8 10.3. Possibility of hazardous Will not occur.

reactions

10.4. Conditions to avoid Not available.

10.5. Incompatible materials Incompatible with strong bases and oxidizing agents.

10.6. Hazardous Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

decomposition products dioxide and/or low molecular weight hydrocarbons.

SECTION 11: Toxicological information

Refer to Section 2 for potential health effects and Section 4 for first aid measures. **General information**

Information on likely routes of exposure

Ingestion Not available. Not available. **Inhalation** Skin contact Not available. **Eye contact** Not available. **Symptoms** Not available.

11.1. Information on toxicological effects

Acute toxicity

Components Test Results Species

2-pyrrolidone (CAS 616-45-5)

Acute

Oral

LD50 Guinea pig 6500 mg/kg

6500 mg/kg Rat

2217 mg/kg

Ammonium nitrate (CAS 6484-52-2)

Acute

Inhalation

LC50 Rat > 88.8 mg/l, 4 Hours

Oral

LD50 Rat

Skin corrosion/irritation Serious eye damage/eye

irritation

No data available. Not available.

Not available. Respiratory sensitization Skin sensitization Not available.

Germ cell mutagenicity No information available.

Not available. Carcinogenicity Reproductive toxicity Not available. Specific target organ toxicity Not available.

- single exposure

Specific target organ toxicity

- repeated exposure

Not available.

Aspiration hazard Not available. Mixture versus substance

information

Not available.

Other information This ink formulation has not been tested for toxicological effects.

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

SECTION 12: Ecological information

12.1. Toxicity

Product Species Test Results

Yellow ink (CAS Mixture)

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) < 400 mg/l, 96 hours

Material name: C6657 Series[Y] SDS UK 5/8

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

Ammonium nitrate (CAS 6484-52-2)

Crustacea EC50 Daphnia 100, 48 Hours
Fish LC50 Fish 100, 96 Hours

Arylazopyrazolesulfonate salt # 3 (CAS Proprietary)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 180 mg/l, 96 hours

Crustacea EC50 Daphnia 102, 48 Hours
Fish LC50 Fish 1000, 96 Hours

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 10330 - 16360 mg/l, 48 hours

Fish LC50 Bleak (Alburnus alburnus) > 10000 mg/l, 96 hours

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

potential

No data available on bioaccumulation.

Partition coefficient n-octanol/water (log Kow)

2-pyrrolidone -0.85

Bioconcentration factor (BCF) Not available. **12.4. Mobility in soil** Not available.

12.5. Results of PBTNot a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Not available.

Contaminated packaging Not available.

EU waste code Not available.

Disposal Do not allow this material to drain into sewers/water supplies.

methods/information Dispose of waste material according to Local, State, Federal, and Provincial Environmental

Regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service

is available in your location, please visit http://www.hp.com/recycle.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

SECTION 15: Regulatory information

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

EU regulations

Material name: C6657 Series[Y] SDS UK

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

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

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

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

AMMONIUM NITRATE (AN) (CAS 6484-52-2)

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

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

Not regulated.

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

Not regulated.

Other regulations All chemical substances in this HP product have been notified or are exempt from notification

under chemical substances notification laws in the following countries: US (TSCA), EU

(EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea,

New Zealand, and China.

National regulations 15.2. Chemical Safety

Not available. Not available.

Assessment

SECTION 16: Other information

References Not available. Full text of any statements or

R-phrases and H-statements under Sections 2 to 15

R7 May cause fire. R8 Contact with combustible material may cause fire.

R21/22 Harmful in contact with skin and if swallowed.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

H302 Harmful if swallowed.

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H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Revision information SECTION 11: Toxicological information: Mutagenicity

SECTION 11: Toxicological information: Corrosivity SECTION 11: Toxicological information: Aspiration hazard

Ecological Information: Ecotoxicity

SECTION 12: Ecological information: Aquatic toxicity

SECTION 12: Ecological information: 12.3. Bioaccumulative potential

GHS: Classification

Training information Not available.

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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

Material name: C6657 Series[Y] SDS UK