

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

C4838Series

Registration number

Synonyms None

13-Oct-2018 Issue date

Version number

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

Identified uses Inkjet printing Uses advised against None known. 1.3. Details of the supplier of the safety data sheet

HP Production Company Limited

Liffey Park Technology Campus

Barnhall Road Leixlip, Co.Kildare

Ireland

01 6150000 **Telephone**

HP Inc. health effects line

(Toll-free within the US) 1-800-457-4209 1-760-710-0048 (Direct)

HP Inc. Customer Care

I ine

(Toll-free within the US) 1-800-474-6836 1-208-323-2551 (Direct)

hpcustomer.inquiries@hp.com Email:

1.4 Emergency telephone

number

+353 1 8379964

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

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

1,5-pentanediol, 2-pyrrolidone, Succinic acid, Tetraethylene glycol, Water, Yellow colorant Contains:

Hazard pictograms None. Signal word None.

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

Precautionary statements

Prevention Not available. Not available. Response Not available. Storage **Disposal** Not available.

Supplemental label 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Material name: C4838Series SDS IRELAND

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General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
 Water	60-70	7732-18-5	-	-	
		231-791-2			
Classification:	-				
1,5-pentanediol	< 15	111-29-5	01-2119449341-44-0006	-	
		203-854-4			
Classification:	-				
Succinic acid	< 7.5	110-15-6	01-2119896114-34-XXXX	-	
Classification:	Eye Dam. 1;H318	-			
2-pyrrolidone	< 5	616-45-5	01-2119475471-37-XXXX	-	
		210-483-1			
Classification:	Eye Irrit. 2;H319				
Tetraethylene glycol	< 5	112-60-7	01-2119971572-32-XXXX	-	
		203-989-9			
Classification:	-				
Yellow colorant	< 2.5	Proprietary	-	-	
Classification:	-	-			

SECTION 4: First aid measures

Composition comments

General information Not available.

4.1. Description of first aid measures

Move to fresh air. If symptoms persist, get medical attention. Inhalation

Wash affected areas thoroughly with mild soap and water. If irritation persists get medical Skin contact

This ink supply contains an aqueous ink formulation.

attention.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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

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

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.

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

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.

Specific methods None established.

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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

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand

or diatomaceous earth, commercial sorbents, or recover using pumps.

6.4. Reference to other

sections

Not available.

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.

7.3. Specific end use(s) Not available.

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).

Recommended monitoring

procedures

Not available.

Derived no effect levels (DNELs)

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/m3	Systemic long term
		Oral	5.2 mg/kg bw/d	Systemic long term
		Oral	33.3 mg/kg bw/d	Systemic acute short term
	Workers	Dermal	277 mg/kg bw/d	Systemic acute short term
		Dermal	10 mg/kg bw/d	Systemic long term
		Inhalation	57.8 mg/m3	Systemic long term
Succinic acid (CAS 110-15-6)	Consumers	Dermal	67 mg/kg	Systemic short term
		Dermal	43 mg/kg	Systemic long term
		Inhalation	10 mg/m3	Local long term
		Inhalation	10 mg/m3	Local short term
		Inhalation	10 mg/m3	Systemic long term
		Inhalation	10 mg/m3	Systemic short term
		Oral	67 mg/kg	Systemic short term
	Workers	Dermal	71 mg/kg	Systemic long term
		Dermal	67 mg/kg	Systemic short term
		Inhalation	10 mg/m3	Local long term
		Inhalation	10 mg/m3	Local short term
		Inhalation	10 mg/m3	Systemic long term
		Inhalation	10 mg/m3	Systemic short term
dicted no effect concentrations (PNI	FCs)			

Predicted no effect concentrations (PNECs)

Туре	Route	Value	Form
Not applicable	Freshwater	0.5 mg/l	
	Intermittent	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
Not applicable	Freshwater	0.1 mg/l	
	Intermittent	1 mg/l	Releases
	Marine water	0.01 mg/l	
	Sediment	0.079 mg/kg	Freshwater
	Not applicable	Not applicable Freshwater Intermittent Marine water Sediment Soil STP Not applicable Freshwater Intermittent Marine water	Not applicable Freshwater 0.5 mg/l Intermittent 0.5 mg/l Marine water 0.05 mg/l Sediment 0.4205 mg/kg Soil 0.0612 mg/kg STP 10 mg/l Not applicable Freshwater 0.1 mg/l Intermittent 1 mg/l Marine water 0.01 mg/l

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Components **Type** Route Value **Form** Sediment 0.0079 mg/kg Marine water Soil 0.0177 mg/kg STP Sewage Treatment Plant 3 mg/l

Exposure guidelines Exposure limits have not been established for this product.

8.2. Exposure controls

Appropriate engineering Use in a well ventilated area.

controls

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

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

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

Environmental exposure

controls

Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. **Form** Not available. Color Yellow Odor Not available. Not available. **Odor threshold** 3.8 - 4.2pН

Melting point/freezing point Not available. Not determined Initial boiling point and boiling

range

200.0 °F (93.3 °C) Pensky-Martens Closed Cup Flash point

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

Flammability limit - lower

(%)

Not determined

Flammability limit - upper

(%)

Not available.

Vapor pressure

Not available. Vapor density Not available.

Solubility(ies)

Soluble in water Solubility (water) Partition coefficient Not available.

(n-octanol/water)

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

9.2. Other information

VOC < 183 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

Material name: C4838Series SDS IRELAND **10.2. Chemical stability**Stable under recommended storage conditions.

10.3. Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoidNot 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 Not available.

Information on likely routes of exposure

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact Contact with skin may result in mild irritation.

Eye contact Contact with eyes may result in mild irritation.

Ingestion Health injuries are not known or expected under normal use.

Symptoms Not available.

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Acute Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritationBased on available data, the classification criteria are not met.

Non irritant in rabbit (OECD 404)

Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met.

Not classified as an irritant according to, OECD 405.

Respiratory sensitizationBased on available data, the classification criteria are not met.Skin sensitizationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.

CarcinogenicityBased on available data, the classification criteria are not met. **Reproductive toxicity**Based on available data, the classification criteria are not met. **Specific target organ toxicity**Based on available data, the classification criteria are not met.

Specific target organ toxicity -

repeated exposure

single exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Mixture versus substance

information

Not available.

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.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity Static acute toxicity (trout), survival (100 mg/L) = 100%

Static acute toxicity (trout), survival (10 mg/L) = 100%

LC50/96h/rainbow trout => 100 mg/l EC50/48h/daphnia =>100mg/l, OECD 202 EC50/48h/green algae => 100 mg/l, OECD 201

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Aquatic

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

Succinic acid (CAS 110-15-6)

Aquatic

Fish LC50 Fish 101, 96 Hours

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12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

2-pyrrolidone -0.85 Succinic acid -0.59

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

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

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

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.

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 (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed

Regulation (EU) No. 649/2012 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

Material name: C4838Series SDS IRELAND

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

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

Not regulated.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

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.

Other information This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830.

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

Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further

rectifications and amendments).

National regulations

15.2. Chemical safety

assessment

Not available.

See attached SUMI or GEIS document, if applicable.

SECTION 16: Other information

References Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation,

Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals

Agency (REACH).

Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of

substances and mixtures, and amendments (CLP).

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any H-statements not written out in full under

Sections 2 to 15

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Revision information Product and Company Identification: Synonyms

Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Physical & Chemical Properties Ecological Information: Ecotoxicity

Material Attributes & Uses; Experimental Data: Physical States

HazReg Data: Pacific Rim

Training information Follow training instructions when handling this material.

Material name: C4838Series SDS IRELAND

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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

Code of Federal Regulations **CFR**

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

National Toxicology Program **NTP**

OSHA Occupational Safety and Health Administration

Permissible Exposure Limit PEL

RCRA Resource Conservation and Recovery Act

REC Recommended

REL Recommended Exposure Limit

Superfund Amendments and Reauthorization Act of 1986 SARA

STFI Short-Term Exposure Limit

Toxicity Characteristics Leaching Procedure **TCLP**

Threshold Limit Value TLV

TSCA Toxic Substances Control Act VOC Volatile Organic Compounds

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