

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	51605R Rev B
Registration number	-
Synonyms	None.
Issue date	22-May-2015
Version number	03
Revision date	28-May-2016
Supersedes date	06-Sep-2015
1.2. Relevant identified uses of	f the substance or mixture and uses advised against
Identified uses	Inkjet printing
Uses advised against	None known.
Company identification	HP Inc UK Limited Cain Rd., Amen Corner, Pt 2nd Floor (Bldg BRA03) Bracknell, United Kingdom RG12 1HN Telephone 44 (0) 879 013 0790
	HP Inc. health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Inc. 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 Regulation (EC) No 1272/2008 as amended

Health hazards

Specific target organ toxicity - repeated	Category 2 (kidney)
exposure	

H373 - May cause damage to organs (kidney) through prolonged or repeated exposure.

2.2. Label elements

Contains:

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

1,2-hexanediol, 2-pyrrolidone, Acid Yellow 23 Tetramethylammonium Salt, Ethylene glycol, Water

Hazard pictograms



Signal word	Warning
Hazard statements	
H373	May cause damage to organs (kidney) through prolonged or repeated exposure.
Precautionary statements	
Prevention	P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
Response	P314 - Get medical attention/advice if you feel unwell.
Storage	Not available.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	None.

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

General information

		No.			
	40-50	7732-18-5 231-791-2	-	-	
-					
	<30	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Eye Irrit. 2;H31	9				
	<30	107-21-1 203-473-3	01-2119456816-28-XXXX	603-027-00-1	#
Acute Tox. 4;H	302, STC	DT RE 2;H373			
	<7.5	6920-22-5	01-2119987321-35-XXXX	-	
Eye Irrit. 2;H31	.9				
nylammonium	<2.5	131013-81-5 -	-	-	
Acute Tox. 3;H	301, Aqu	atic Chronic 3;H412			
-	- Eye Irrit. 2;H31 Acute Tox. 4;H3 Eye Irrit. 2;H31	Eye Irrit. 2;H319 <30 Acute Tox. 4;H302, STC <7.5 Eye Irrit. 2;H319			

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid me	asures
Inhalation	Move to fresh air. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
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 needed	Not available.

SECTION 5: Firefighting measures

General fire hazards	Not available.
5.1. Extinguishing media	
Suitable extinguishing media	Dry chemical, CO2, water spray or regular 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.

6.1. Personal precautions, protective equipment and emergency procedures For non-emergency Wear appropriate personal protective equipment. personnel For emergency Not available. responders 6.2. Environmental Do not let product enter drains. Do not flush into surface water or sanitary sewer system. precautions 6.3. Methods and material for Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand containment and cleaning up or diatomaceous earth, commercial sorbents, or recover using pumps. 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.
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	Туре	Value	
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m3	
-		40 ppm	
	TWA	52 mg/m3	
		20 ppm	
UK. EH40 Workplace Expo	sure Limits (WELs)		
Components	Туре	Value	Form
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m3	Vapor.
		40 ppm	Vapor.
	TWA	52 mg/m3	Vapor.
		10 mg/m3	Particulate.
		20 ppm	Vapor.
logical limit values	No biological exposure limits noted	for the ingredient(s).	
commended monitoring	Not available.		
cedures			

Components	Туре	Route	Value	Form
1,2-hexanediol (CAS 6920-22-5)	Worker	Inhalation	123 mg/m3	Systemic long term
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

Components		Туре	Route	Value	Form
		Workers	Dermal	277 mg/kg bw/d	Systemic acute short tern
			Dermal	10 mg/kg bw/d	Systemic long term
			Inhalation	57.8 mg/m3	Systemic long term
Ethylene glycol (CAS 107-21	-1)	Consumers	Dermal	53 mg/kg	Systemic long term
			Inhalation	7 mg/m3	Local long term
		Workers	Dermal	106 mg/kg	Systemic long term
			Inhalation	35 mg/m3	Local long term
redicted no effect concentr	ations (PNEC	s)			
Components		Туре	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
Ethylene glycol (CAS 107-21	1-1)	Not applicable	Freshwater	10 mg/l	
			Intermittant	10 mg/l	Releases
			Marine water	1 mg/l	
			Sediment	37 mg/kg	Freshwater
			Sediment	3.7 mg/kg	Marine water
			Soil	1.53 mg/kg	
			STP	199.5 mg/l	Sewage Treatment Plant
xposure guidelines	-	mits have not been e	stablished for this	product.	
UK EH40 WEL: Skin desig	-				
Ethylene glycol (CAS 10)7-21-1)	(Can be absorbed th	nrough the skin.	
2. Exposure controls					
ppropriate engineering ontrols	Use in a we	ell ventilated area.			
ndividual protection measu		-			
General information	-	al protective equipme	ent to minimize exp	posure to skin and e	eye.
Eye/face protection	Not availab	le.			
Skin protection					
- Hand protection	Not availab	le.			
- Other	Not availab	le.			
Respiratory protection	Not availab	le.			
Thermal hazards	Not availab	le.			
ygiene measures	Handle in a	ccordance with good	industrial hygiene	and safety practice	
nvironmental exposure	Not availab	-			
ontrols					
ECTION 9: Physical ar	d chemica	properties			
.1. Information on basic ph					
ppearance	liquid				
Physical state	Liquid.				
Color	Red, Mage	nta			
dor	Not availab				
dor threshold	Not availab				
		10.			
H	7 - 7.4				
elting point/freezing point	Not availab	le.			

Initial boiling point and boiling range	Not determined
Flash point	338.0 - 347.0 °F (170.0 - 175.0 °C) Closed Cup
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
Material name: 51605P Pey B	

Upper/lower flammability or explosiv

lot determined
lot available.
ot determined
oluble in water
ot available.
lot available.
ot available.
ot available.
= 2 cp
lot available.
lot determined
578 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity	Not available.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	Will not occur.
10.4. Conditions to avoid	Not available.
10.5. Incompatible materials	Incompatible with strong bases and oxidizing agents.
10.6. Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

SECTION 11: Toxicological information

General information

Not available.

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria a	re not met.
Skin corrosion/irritation	Based on available data, the classification criteria a	re not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria a	re not met.
Respiratory sensitization	Based on available data, the classification criteria a	re not met.
Skin sensitization	Based on available data, the classification criteria a	re not met.
Germ cell mutagenicity	Based on available data, the classification criteria a	re not met.
Carcinogenicity	Based on available data, the classification criteria a	re not met.
Reproductive toxicity	Based on available data, the classification criteria a	re not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria a	re not met.
Specific target organ toxicity - repeated exposure	May cause damage to organs (kidney) through pro	longed or repeated exposure by ingestion.
Aspiration hazard	Based on available data, the classification criteria a	re not met.
Components	Species	Test Results

Components 2-pyrrolidone (CAS 616-45-5)

Acute
Oral

Oral		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg
Acid Yellow 23 Tetramet	hylammonium Salt (CAS 131013-81-5)	
Acute		

Dermal LD50

Rabbit

2000 mg/kg

Components	Species		Test Results
Oral			
LD50	Rat		81 mg/kg
Chronic			
Oral			
NOAEL	Rat		1 mg/kg
Ethylene glycol (CAS 107-21-1)		
Acute			
Dermal			
LD50	Rabbit		9530 mg/kg
Oral			
LD50	Cat		1650 mg/kg
	Dog		5500 mg/kg
	Guinea pi	g	8.2 g/kg
	Mouse		14.6 g/kg
	Rat		5.89 g/kg
Other			
LD50	Mouse		5.8 g/kg
	Rat		2800 mg/kg
Mixture versus substance information	Not availab		
Other information		oxicity data are not available for this specific ction 2 for potential health effects and Section	
SECTION 12: Ecologic	al informatio	on	
12.1. Toxicity			
, Product		Species	Test Results
51605R Rev B		•	
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas) > 750 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
Acid Yellow 23 Tetramethylam	monium Salt (CAS	5 131013-81-5)	
Aquatic			
Algae	IC50	Algae	<= 100 mg/l, 72 Hours
Crustacea	EC50	Daphnia	30 mg/l, 48 Hours
Fish	LC50	Fish	1000 mg/l, 96 Hours
Ethylong alway (CAC 107 21 1	`		

Ethylene glycol (CAS 107-21-1) Aquatic

LC50 Fathead minnow (Pimephales promelas) 8050 mg/l, 96 hours Fish 12.2. Persistence and Not available. degradability Not available. 12.3. Bioaccumulative potential **Partition coefficient** n-octanol/water (log Kow) 2-pyrrolidone -0.85 Ethylene glycol -1.36 **Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment meth	ods
Residual waste	Not available.
Contaminated packaging	Not available.
EU waste code	Not available.
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. 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 (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

Acid Yellow 23 Tetramethylammonium Salt (CAS 131013-81-5)

Ethylene glycol (CAS 107-21-1)

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

Acid Yellow 23 Tetramethylammonium Salt (CAS 131013-81-5)

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.
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.
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).
Not available.
See attached SUMI or GEIS document, if applicable.

SECTION 16: Other information

assessment

References	Not available.
Information on evaluation method leading to the classification of mixture	Not available.
Issue date	22-May-2015
Revision information	Composition/Information on Ingredients GHS: Qualifiers
Training information	Not available.
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.
Manufacturer information	HP Inc. 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
List of abbreviations	Not available.

Safe Use of Mixture Information (SUMI)

Water Based Ink: WB01 *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.

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Operational conditions	
Maximum duration	Up to 8 hours per day
Frequency of exposure	< 240 days per year
Process conditions	Covers use at ambient temperatures. 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. 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	Wear safety glasses with side shields (or goggles), if splashing is possible.
related to Personal Protection	
	Wear appropriate chemical resistent gloves: see section 8 of the SDS.
Equipment, hygiene and	Wear appropriate chemical resistent clothing.
health evaluation	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 equipme	ent as required.
Wash hands before breaks and a	after work.
Keep good industrial hygiene and	d safety practice.
Use only with adequate ventilati	
Do no eat, drink or smoke when	
Wash contaminated clothing be	
Store at room temperature.	
Environmental measures	
	in intercourse/unitercourselies
Do not allow this material to dra	
-	ding to Local, State, Federal and Provincial Environmental Regulations.
	ith appropriately licenced waste contractor.
Use descriptors	
IS-Use at industrial sites	
PW-Widespread use by profession	onal workers
SU7-Printing and reproduction n	nedia
PC18-Inks and Toners	
PROC1-Chemical production or r	refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2-Chemical production or r	refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
condition PROC8a-Transfer of substance o	tion in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment r mixture (charging and discharging) at non-dedicated facilities r mixture (charging and discharging) at dedicated facilities
ERC5-Use at industrial site leading	
	o inclusion into/onto article (indoor)
Additional information on prod	
	s on the label, the classification of the mixture is provided.
Most of the water based inks are	
	is based on the individuel ingredients and their concentration within the mixture.
	ne classification are stated in Section 3 of the SDS.
	nts on which the exposure assessment is based, are listed in section 8 of the SDS.
	zing ingredients that may cause allergic reaction to certain people.
Section 2 of the SDS states these	
I	WB01 English.pdf