

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	51645 Series
Registration number	-
Synonyms	None.
Issue date	21-Jun-2013
Version number	03
Revision date	14-Aug-2015
Supersedes date	01-Apr-2015
1.2. Relevant identified uses o	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 health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 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 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

Luber according to Regulation	
Contains:	2-pyrrolidone, Carbon black, Isopropyl alcohol, 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	Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.
2.3. Other hazards	Complete toxicity data are not available for this specific formulation.
	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.
	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

neral information Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes	
Water	75-85	7732-18-5 231-791-2	-	-		
Classification: -						
2-pyrrolidone	<15	616-45-5 210-483-1	01-2119475471-37-XXXX	-		
Classification: Ey	/e Irrit. 2;H319					
Carbon black	<5	1333-86-4 215-609-9	01-2119384822-32-XXXX	-		
Classification: -						
Isopropyl alcohol	<2.5	67-63-0 200-661-7	01-2119457558-25-XXXX	603-117-00-0		
Classification: Fla	am. Liq. 2;H225, Eye		SE 3;H336			
mposition comments	This ink supply co	ontains an aqueous i	nk formulation.			
	Carbon black is p	Carbon black is present only in a bound form in this preparation.				
CTION 4: First aid me	easures					
neral information	Not available.					
L. Description of first aid n	neasures	T C				
Inhalation	neasures Move to fresh air.		t, get medical attention.		di I	
Inhalation Skin contact	neasures Move to fresh air. Wash affected are attention.	eas thoroughly with	mild soap and water. If irritation			
Inhalation Skin contact Eye contact	Move to fresh air. Wash affected are attention. Do not rub eyes. least 15 minutes o	eas thoroughly with Immediately flush w or until particles are	mild soap and water. If irritation with large amounts of clean, wa removed. If irritation persists	rm water (low pre	ssure) fo	
Inhalation Skin contact Eye contact Ingestion	Move to fresh air. Wash affected are attention. Do not rub eyes. least 15 minutes of If ingestion of a la	eas thoroughly with Immediately flush w or until particles are arge amount does o	mild soap and water. If irritation with large amounts of clean, wa removed. If irritation persists ccur, seek medical attention.	rm water (low pre	ssure) fo	
Inhalation Skin contact Eye contact	Move to fresh air. Wash affected are attention. Do not rub eyes. least 15 minutes of If ingestion of a la	eas thoroughly with Immediately flush w or until particles are	mild soap and water. If irritation with large amounts of clean, wa removed. If irritation persists ccur, seek medical attention.	rm water (low pre	ssure) fo	
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Inhalation Skin contact Eye contact Ingestion 2. Most important mptoms and effects, both ute and delayed 3. Indication of any mediate medical attention d special treatment eded	Move to fresh air. Wash affected are attention. Do not rub eyes. least 15 minutes of If ingestion of a la Contact with skin Not available.	eas thoroughly with Immediately flush w or until particles are arge amount does o	mild soap and water. If irritation with large amounts of clean, wa removed. If irritation persists ccur, seek medical attention.	rm water (low pre	ssure) for	
Inhalation Skin contact Eye contact Ingestion 2. Most important mptoms and effects, both ute and delayed 3. Indication of any mediate medical attention d special treatment	Move to fresh air. Wash affected are attention. Do not rub eyes. least 15 minutes of If ingestion of a la Contact with skin Not available. G measures No ignition, susta	eas thoroughly with Immediately flush w or until particles are arge amount does o and eyes may resul	mild soap and water. If irritation with large amounts of clean, water removed. If irritation persists of ccur, seek medical attention. t in irritation.	rm water (low pre get medical attent	essure) foi	
Inhalation Skin contact Eye contact Ingestion 2. Most important mptoms and effects, both ute and delayed 3. Indication of any mediate medical attention d special treatment eded ECTION 5: Firefighting	Move to fresh air. Wash affected are attention. Do not rub eyes. least 15 minutes of If ingestion of a la Contact with skin Not available. G measures No ignition, susta (method in US 49	eas thoroughly with Immediately flush w or until particles are arge amount does o and eyes may resul	flashing detected using the Sus	rm water (low pre get medical attent	essure) foi	
Inhalation Skin contact Eye contact Ingestion 2. Most important mptoms and effects, both ute and delayed 3. Indication of any mediate medical attention d special treatment eded ECTION 5: Firefighting otes	Move to fresh air. Wash affected are attention. Do not rub eyes. least 15 minutes of If ingestion of a la Contact with skin Not available. G measures No ignition, susta (method in US 49	eas thoroughly with Immediately flush w or until particles are arge amount does o and eyes may resul	flashing detected using the Sus	rm water (low pre get medical attent	essure) foi	
Inhalation Skin contact Eye contact Ingestion 2. Most important mptoms and effects, both ute and delayed 3. Indication of any mediate medical attention d special treatment eded ECTION 5: Firefighting otes	Move to fresh air. Wash affected are attention. Do not rub eyes. least 15 minutes of If ingestion of a la Contact with skin Not available. G measures No ignition, susta (method in US 49	eas thoroughly with Immediately flush w or until particles are arge amount does o and eyes may resul	flashing detected using the Sus	rm water (low pre get medical attent	essure) foi	
Inhalation Skin contact Eye contact Ingestion 2. Most important mptoms and effects, both ute and delayed 3. Indication of any mediate medical attention d special treatment eded ECTION 5: Firefighting otes meral fire hazards 1. Extinguishing media Suitable extinguishing	Move to fresh air. Wash affected are attention. Do not rub eyes. least 15 minutes of If ingestion of a la Contact with skin Not available. G measures No ignition, susta (method in US 49 Contact with skin CO2, water, dry co	eas thoroughly with Immediately flush w or until particles are arge amount does o and eyes may resul	flashing detected using the Sus	rm water (low pre get medical attent	essure) foi	
Inhalation Skin contact Eye contact Ingestion 2. Most important mptoms and effects, both ute and delayed 3. Indication of any mediate medical attention d special treatment eded ECTION 5: Firefighting tes meral fire hazards 1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing	Move to fresh air. Wash affected are attention. Do not rub eyes. least 15 minutes of If ingestion of a la Contact with skin Not available. G measures No ignition, susta (method in US 49 Contact with skin CO2, water, dry co	eas thoroughly with Immediately flush w or until particles are arge amount does o and eyes may resul	flashing detected using the Sus	rm water (low pre get medical attent	essure) foi	

SECTION 6: Accidental release measures

6.1. Personal precautions, prot	tective 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. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations.
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

UK. EH40 Workplace Expo Components	Type	Value		
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3		
	TWA	3.5 mg/m3		
Isopropyl alcohol (CAS 67-63-0)	STEL	1250 mg/m3		
	TWA	500 ppm 999 mg/m3 400 ppm		
ological limit values	No biological exposure limits noted fo	r the ingredient(s).		
ecommended monitoring rocedures	Not available.			
erived no-effect level DNEL)	Not available.			
redicted no effect oncentrations (PNECs)	Not available.			
cposure guidelines	Exposure limits have not been establis	Exposure limits have not been established for this product.		
2. Exposure controls				
ppropriate engineering ontrols	Use in a well ventilated area.			
dividual protection measur	es, such as personal protective equi	pment		
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.			
vgiene 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	
Physical state	Liquid.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
рН	7.8 - 8.4
Melting point/freezing point	Not available.
Initial boiling point and boiling range	200 °F (93.33 °C)
Flash point	131.0 - 136.0 °F (55.0 - 57.8 °C)
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not determined
Solubility(ies)	
Solubility (water)	Soluble in water
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not determined
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	> 2 cp
Explosive properties	Not available.
Oxidizing properties	Not determined
9.2. Other information	
Bulk density	1 - 1.2 gm/ml
Specific gravity	1 - 1.2
VOC (Weight %)	< 116.6 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity 10.2. Chemical stability 10.3. Possibility of hazardous reactions	Not available. Stable under recommended storage conditions. 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

A cuto toxicity	Paced on available data, the classification criteria are not met
Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	Based on available data, the classification criteria are not met.
Material name: 51645 Series	

	Deced on over	ilable data, the classification evitoria are a	at wat
Germ cell mutagenicity	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.		
Carcinogenicity	based on ava	liable data, the classification criteria are n	ot met.
	2B) and by th organizations bound within	indicate that exposure to carbon black, p	. In their evaluations of carbon black, both
IARC Monographs. Overa	II Evaluation of	f Carcinogenicity	
Carbon black (CAS 1333	-86-4)	2B Possibly carcinogeni	ic to humans.
Reproductive toxicity	Based on ava	ilable data, the classification criteria are n	ot met.
Specific target organ toxicity - single exposure	Based on ava	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - repeated exposure	Based on ava	ilable data, the classification criteria are n	ot met.
Aspiration hazard	Based on ava	ilable data, the classification criteria are n	ot met.
Components	Species		Test Results
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig		6500 mg/kg
	Rat		6500 mg/kg
Carbon black (CAS 1333-86-4)			
Acute			
Oral			0000 //
LD50	Rat		> 8000 mg/kg
Isopropyl alcohol (CAS 67-63-0) Acute Dermal			
LD50	Rabbit		12800 mg/kg
Oral			
LD50	Dog		4797 mg/kg
	Mouse		3600 mg/kg
	Rabbit		5.03 g/kg
	Rat		4.7 g/kg
Other			
LD50	Mouse		1509 mg/kg
	Rat		1099 mg/kg
Mixture versus substance information	Not available.		
Other information		icity data are not available for this specific on 2 for potential health effects and Secti	
SECTION 12: Ecological	information	1	
-			
Aquatic toxicity	NOT EXPECTED	to be harmful to aquatic organisms.	
12.1. Toxicity Product		Enorida	Test Results
		Species	Test Results
51645 Series (CAS Mixture) Aquatic Acute			
Fish	LC50	Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours
Components		Species	Test Results
2-pyrrolidone (CAS 616-45-5)		- F	
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
		· · ·	
Material name: 51645 Series			SDS UK

Components		Species	Test Results
Isopropyl alcohol (CAS 67-63-0)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Acute			
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
12.2. Persistence and degradability	No data is ava	ilable on the degradability of this product.	
12.3. Bioaccumulative potential	Not available.		
Partition coefficient n-octanol/water (log Kow)			
2-pyrrolidone		-0.85	
Isopropyl alcohol		0.05	
Bioconcentration factor (BCF)			
12.4. Mobility in soil	Not available.		
12.5. Results of PBT and vPvB assessment	Not a PBT or v	/PvB substance or mixture.	
12.6. Other adverse effects	Not available.		

SECTION 13: Disposal considerations

13.1. Waste treatment meth	lods
Residual waste	Not available.
Contaminated packaging	No special precautions.
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'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 N

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

No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous Goods Regulations Section 3.3.1.3.

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

Isopropyl alcohol (CAS 67-63-0)

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.
Other information	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). Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).
National regulations	Not available.
15.2. Chemical safety assessment	Not available.

SECTION 16: Other information

References

Not available.

Information on evaluation method leading to the classification of mixture	Not available.
Issue date	21-Jun-2013
Revision information	1. Product and Company Identification: Alternate Trade Names SECTION 16: Other information: Disclaimer
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 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.