



# SAFETY DATA SHEET

PM INKJOY INKS (ALL COLORS)

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

### 1.1 Product identifier

<b>Product name</b>	: PM INKJOY INKS (ALL COLORS)
<b>Product code</b>	: 1956751; 2176364; 1987871; 2077243; PM INKJOY BALLPOINT PEN (ALL COLORS)
<b>Product description</b>	: INKS for Papermate Inkjoy ballpoint pens. Papermate Inkjoy 100ST&RT, Papermate Inkjoy 300ST&RT, Papermate Inkjoy Wrap, Papermate Quatro Asst.
<b>Product type</b>	: Liquid.
<b>Other means of identification</b>	: PM INKJOY BALLPOINT PEN (ALL COLORS), PM INKJOY-CP ULV INKS (ALL COLORS); 1987871; 2176364; 2077243; 1956751

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

#### Identified uses

Not applicable.

#### Uses advised against

Not applicable.

### 1.3 Details of the supplier of the safety data sheet

Newell Brands UK Limited  
Halifax Avenue Fradley Park - Lichfield Staffordshire, WS138SS United Kingdom

**e-mail address of person responsible for this SDS** : Aftersales.SERVICE@newellco.com

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : 111

#### Supplier

**Telephone number** :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

##### **PM INKJOY-CP ULV BLACK BALL PEN INK**

Acute Tox. 4, H302  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Aquatic Chronic 2, H411

##### **PM INKJOY-CP ULV BLUE BALL PEN INK**

Acute Tox. 4, H302  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Aquatic Chronic 2, H411

##### **PM INKJOY-CP ULV BROWN BALL PEN INK**

PM INKJOY INKS (ALL COLORS)

## SECTION 2: Hazards identification

Acute Tox. 4, H302  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Muta. 2, H341 (oral)  
Aquatic Chronic 2, H411

### PM INKJOY-CP ULV GREEN BALL PEN INK

Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Skin Sens. 1, H317  
Aquatic Chronic 3, H412

### PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK

Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Aquatic Chronic 2, H411

### PM INKJOY-CP ULV ORANGE BALL PEN INK

Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Aquatic Chronic 2, H411

### PM INKJOY-CP ULV PINK BALL PEN INK

Eye Irrit. 2, H319  
Aquatic Chronic 2, H411

### PM INKJOY-CP ULV RED BALL PEN INK

Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Aquatic Chronic 3, H412

### PM INKJOY-CP ULV T BLUE BALL PEN INK

Eye Irrit. 2, H319  
Skin Sens. 1, H317  
Aquatic Chronic 3, H412

### PM INKJOY-CP ULV VIOLET BALL PEN INK

Skin Irrit. 2, H315  
Eye Dam. 1, H318  
Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : 31.4 percent of the mixture consists of component(s) of unknown acute oral toxicity  
34.8 percent of the mixture consists of component(s) of unknown acute dermal toxicity  
75 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

**Ingredients of unknown ecotoxicity** : Contains 31.4% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## 2.2 Label elements

PM INKJOY INKS (ALL COLORS)

## SECTION 2: Hazards identification

### Hazard pictograms

: PM INKJOY-CP ULV BLACK BALL PEN INK



PM INKJOY-CP ULV BLUE BALL PEN INK



PM INKJOY-CP ULV BROWN BALL PEN INK



PM INKJOY-CP ULV GREEN BALL PEN INK



PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK



PM INKJOY-CP ULV ORANGE BALL PEN INK



PM INKJOY-CP ULV PINK BALL PEN INK



PM INKJOY-CP ULV RED BALL PEN INK



PM INKJOY-CP ULV T BLUE BALL PEN INK



PM INKJOY-CP ULV VIOLET BALL PEN INK



### Signal word

: PM INKJOY-CP ULV BLACK BALL PEN INK  
 PM INKJOY-CP ULV BLUE BALL PEN INK  
 PM INKJOY-CP ULV BROWN BALL PEN INK  
 PM INKJOY-CP ULV GREEN BALL PEN INK  
 PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK  
 PM INKJOY-CP ULV ORANGE BALL PEN INK  
 PM INKJOY-CP ULV PINK BALL PEN INK  
 PM INKJOY-CP ULV RED BALL PEN INK

Warning  
 Warning  
 Warning  
 Warning  
 Warning  
 Warning  
 Warning  
 Warning

## SECTION 2: Hazards identification

PM INKJOY-CP ULV T BLUE BALL PEN INK                      Warning  
PM INKJOY-CP ULV VIOLET BALL PEN INK                      Danger

**Hazard statements** :

### Precautionary statements

- General** : Read carefully and follow all instructions. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
- Prevention** : Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
- Response** : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
- Storage** : Store locked up. Store in a well-ventilated place. Keep container tightly closed.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : **PM INKJOY-CP ULV BLACK BALL PEN INK**  
2-phenoxyethanol  
C.I. Basic Violet 1

**PM INKJOY-CP ULV BLUE BALL PEN INK**  
2-phenoxyethanol  
C.I. Basic Violet 1

**PM INKJOY-CP ULV BROWN BALL PEN INK**  
2-phenoxyethanol  
benzyl alcohol  
chrysoidine

**PM INKJOY-CP ULV VIOLET BALL PEN INK**  
2-phenoxyethanol  
Phosphoric acid, 2-ethylhexyl ester

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Restricted to professional users.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Yes, applicable.

**Tactile warning of danger** : Yes, applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

PM INKJOY INKS (ALL COLORS)

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
<b>PM INKJOY-CP ULV BLACK BALL PEN INK</b>					
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
C.I. Basic Violet 1	CAS: 8004-87-3	≤10	Acute Tox. 4, H302 Aquatic Acute 1, H400	ATE [Oral] = 413 mg/kg M [Acute] = 10	[1]
sodium 3-(p-anilinophenylazo) benzenesulphonate	EC: 209-608-2 CAS: 587-98-4	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1]
1,1'-oxydipropan-2-ol	EC: 203-821-4 CAS: 110-98-5	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
2-(2-ethoxyethoxy)ethanol	EC: 203-919-7 CAS: 111-90-0	≤3	Eye Irrit. 2, H319	-	[1]
(Z)-octadec-9-enylamine	EC: 204-015-5 CAS: 112-90-3 Index: 612-283-00-3	≤3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]
Phosphoric acid, 2-ethylhexyl ester	EC: 235-741-0 CAS: 12645-31-7	≤3	Skin Corr. 1C, H314 Eye Dam. 1, H318	-	[1]
<b>PM INKJOY-CP ULV BLUE BALL PEN INK</b>					
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]

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1,1'-oxydipropan-2-ol	EC: 203-821-4 CAS: 110-98-5	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
C.I. Basic Violet 1	CAS: 8004-87-3	≤10	Acute Tox. 4, H302 Aquatic Acute 1, H400	ATE [Oral] = 413 mg/kg M [Acute] = 10	[1]
2-(2-ethoxyethoxy)ethanol	EC: 203-919-7 CAS: 111-90-0	≤5	Eye Irrit. 2, H319	-	[1]
(Z)-octadec-9-enylamine	EC: 204-015-5 CAS: 112-90-3 Index: 612-283-00-3	≤3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]
Phosphoric acid, 2-ethylhexyl ester	EC: 235-741-0 CAS: 12645-31-7	≤3	Skin Corr. 1C, H314 Eye Dam. 1, H318	-	[1]
<b>PM INKJOY-CP ULV BROWN BALL PEN INK</b>					
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
1,1'-oxydipropan-2-ol	EC: 203-821-4 CAS: 110-98-5	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
2-(2-ethoxyethoxy)ethanol	EC: 203-919-7 CAS: 111-90-0	≤5	Eye Irrit. 2, H319	-	[1]
chrysoidine	EC: 207-803-7 CAS: 495-54-5 Index: 611-151-00-2	≤5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 2, H341 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1650 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]
9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium, salt with 4,5-dihydro-5-oxo-1-(4-sulphophenyl)-4-[ (4-sulphophenyl)azo]-1H-pyrazole-3-carboxylic acid (3:1)	EC: 265-499-1 CAS: 65138-66-1	≤3	Acute Tox. 4, H302	ATE [Oral] = 500 mg/kg	[1]

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(Z)-octadec-9-enylamine	EC: 204-015-5 CAS: 112-90-3 Index: 612-283-00-3	≤3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]
Phosphoric acid, 2-ethylhexyl ester	EC: 235-741-0 CAS: 12645-31-7	≤3	Skin Corr. 1C, H314 Eye Dam. 1, H318	-	[1]
C.I. Basic Violet 1	CAS: 8004-87-3	≤3	Acute Tox. 4, H302 Aquatic Acute 1, H400	ATE [Oral] = 413 mg/kg M [Acute] = 10	[1]
sodium 3-(p-anilinophenylazo) benzenesulphonate	EC: 209-608-2 CAS: 587-98-4	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1]
<b>PM INKJOY-CP ULV GREEN BALL PEN INK</b>					
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
disulfo copper phthalocyanine amine salt	EC: 215-523-1 CAS: 1328-51-4	≤10	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	-	[1] [2]
1,1'-oxydipropan-2-ol	EC: 203-821-4 CAS: 110-98-5	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
2-(2-ethoxyethoxy)ethanol	EC: 203-919-7 CAS: 111-90-0	≤3	Eye Irrit. 2, H319	-	[1]
(Z)-octadec-9-enylamine	EC: 204-015-5 CAS: 112-90-3 Index: 612-283-00-3	≤3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]
<b>PM INKJOY-CP ULV</b>					

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<b>LIGHT GREEN BALL PEN INK</b>					
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
disulfo copper phthalocyanine amine salt	EC: 215-523-1 CAS: 1328-51-4	≤10	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	-	[1] [2]
1,1'-oxydipropan-2-ol	EC: 203-821-4 CAS: 110-98-5	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
2-(2-ethoxyethoxy)ethanol	EC: 203-919-7 CAS: 111-90-0	≤3	Eye Irrit. 2, H319	-	[1]
(Z)-octadec-9-enylamine	EC: 204-015-5 CAS: 112-90-3 Index: 612-283-00-3	≤3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]
<b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b>					
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
1,1'-oxydipropan-2-ol	EC: 203-821-4 CAS: 110-98-5	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
2-(2-ethoxyethoxy)ethanol	EC: 203-919-7 CAS: 111-90-0	≤5	Eye Irrit. 2, H319	-	[1]
9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium, salt with 4,5-dihydro-5-oxo-1-(4-sulphophenyl)-4-[4-sulphophenyl]azo]-1H-pyrazole-3-carboxylic acid	EC: 265-499-1 CAS: 65138-66-1	≤3	Acute Tox. 4, H302	ATE [Oral] = 500 mg/kg	[1]

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(3:1)					
(Z)-octadec-9-enylamine	EC: 204-015-5 CAS: 112-90-3 Index: 612-283-00-3	≤3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]
Phosphoric acid, 2-ethylhexyl ester	EC: 235-741-0 CAS: 12645-31-7	≤3	Skin Corr. 1C, H314 Eye Dam. 1, H318	-	[1]
<b>PM INKJOY-CP ULV PINK BALL PEN INK</b>					
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
1,1'-oxydipropan-2-ol	EC: 203-821-4 CAS: 110-98-5	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
Phosphoric acid, 2-ethylhexyl ester	EC: 235-741-0 CAS: 12645-31-7	≤5	Skin Corr. 1C, H314 Eye Dam. 1, H318	-	[1]
2-(2-ethoxyethoxy)ethanol	EC: 203-919-7 CAS: 111-90-0	≤3	Eye Irrit. 2, H319	-	[1]
(Z)-octadec-9-enylamine	EC: 204-015-5 CAS: 112-90-3 Index: 612-283-00-3	≤1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]
<b>PM INKJOY-CP ULV RED BALL PEN INK</b>					
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1]
benzyl alcohol	REACH #:	≤10	Acute Tox. 4, H302	ATE [Oral] = 1230	[1]

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### SECTION 3: Composition/information on ingredients

	01-2119492630-38 EC: 202-859-9 CAS: 100-51-6		Acute Tox. 4, H332 Eye Irrit. 2, H319	mg/kg ATE [Inhalation (vapours)] = 11 mg/l	
1,1'-oxydipropan-2-ol	EC: 203-821-4 CAS: 110-98-5	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylum chloride	EC: 213-584-9 CAS: 989-38-8	≤10	Acute Tox. 3, H301 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 100 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]
2-(2-ethoxyethoxy)ethanol	EC: 203-919-7 CAS: 111-90-0	≤3	Eye Irrit. 2, H319	-	[1]
(Z)-octadec-9-enylamine	EC: 204-015-5 CAS: 112-90-3 Index: 612-283-00-3	≤3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]
Phosphoric acid, 2-ethylhexyl ester	EC: 235-741-0 CAS: 12645-31-7	≤3	Skin Corr. 1C, H314 Eye Dam. 1, H318	-	[1]
chrysoidine	EC: 207-803-7 CAS: 495-54-5 Index: 611-151-00-2	≤1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 2, H341 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1650 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]
<b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b>					
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1]
disulfo copper phthalocyanine amine salt	EC: 215-523-1 CAS: 1328-51-4	≥10 - ≤25	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	-	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
1,1'-oxydipropan-2-ol	EC: 203-821-4 CAS: 110-98-5	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]

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### SECTION 3: Composition/information on ingredients

2-(2-ethoxyethoxy)ethanol	EC: 203-919-7 CAS: 111-90-0	≤3	Eye Irrit. 2, H319	-	[1]
(Z)-octadec-9-enylamine	EC: 204-015-5 CAS: 112-90-3 Index: 612-283-00-3	≤3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]
<b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b>					
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
1,1'-oxydipropan-2-ol	EC: 203-821-4 CAS: 110-98-5	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
Phosphoric acid, 2-ethylhexyl ester	EC: 235-741-0 CAS: 12645-31-7	≤5	Skin Corr. 1C, H314 Eye Dam. 1, H318	-	[1]
2-(2-ethoxyethoxy)ethanol	EC: 203-919-7 CAS: 111-90-0	≤3	Eye Irrit. 2, H319	-	[1]
(Z)-octadec-9-enylamine	EC: 204-015-5 CAS: 112-90-3 Index: 612-283-00-3	≤1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 <b>See Section 16 for the full text of the H statements declared above.</b>	ATE [Oral] = 500 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

## SECTION 4: First aid measures

**Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
phosphorus oxides  
halogenated compounds  
metal oxide/oxides

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## SECTION 6: Accidental release measures

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### 6.3 Methods and material for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds

##### Danger criteria

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## SECTION 7: Handling and storage

Category	Notification and MAPP threshold	Safety report threshold
PM INKJOY-CP ULV BLACK BALL PEN INK E2	200 tonne	500 tonne
PM INKJOY-CP ULV BLUE BALL PEN INK E2	200 tonne	500 tonne
PM INKJOY-CP ULV BROWN BALL PEN INK E2	200 tonne	500 tonne
PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK E2	200 tonne	500 tonne
PM INKJOY-CP ULV ORANGE BALL PEN INK E2	200 tonne	500 tonne
PM INKJOY-CP ULV PINK BALL PEN INK E2	200 tonne	500 tonne

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
PM INKJOY-CP ULV GREEN BALL PEN INK disulfo copper phthalocyanine amine salt	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [Copper and compounds dust and mists, as Cu]</b> STEL: 2 mg/m <sup>3</sup> , (as Cu) 15 minutes. Form: Dusts and Mists TWA: 1 mg/m <sup>3</sup> , (as Cu) 8 hours. Form: Dusts and Mists
PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK disulfo copper phthalocyanine amine salt	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [Copper and compounds dust and mists, as Cu]</b> STEL: 2 mg/m <sup>3</sup> , (as Cu) 15 minutes. Form: Dusts and Mists TWA: 1 mg/m <sup>3</sup> , (as Cu) 8 hours. Form: Dusts and Mists
PM INKJOY-CP ULV T BLUE BALL PEN INK disulfo copper phthalocyanine amine salt	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [Copper and compounds dust and mists, as Cu]</b> STEL: 2 mg/m <sup>3</sup> , (as Cu) 15 minutes. Form: Dusts and Mists TWA: 1 mg/m <sup>3</sup> , (as Cu) 8 hours. Form: Dusts and Mists

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following:  
European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for

## SECTION 8: Exposure controls/personal protection

methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects	
PM INKJOY-CP ULV BLACK BALL PEN INK 2-phenoxyethanol	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	20.83 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Systemic	
	benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic
		DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
		DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
		DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic
		DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic
DNEL		Short term Dermal	40 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic	
sodium 3-(p-anilinophenylazo) benzenesulphonate	DNEL	Long term Oral	1.43 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	1.43 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	2.15 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	4 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	14 mg/m <sup>3</sup>	Workers	Systemic	
	2-(2-ethoxyethoxy)ethanol	DNEL	Long term Dermal	0.9 mg/cm <sup>2</sup>	General population	Local
DNEL		Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local	
DNEL		Long term Inhalation	18 mg/m <sup>3</sup>	General population	Local	
DNEL		Long term Inhalation	30 mg/m <sup>3</sup>	Workers	Local	
DNEL		Long term Oral	50 mg/kg bw/day	General population	Systemic	
Phosphoric acid, 2-ethylhexyl ester	DNEL	Long term Oral	6.25 mg/	General	Systemic	

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	DNEL	Long term Dermal	kg bw/day 6.25 mg/ kg bw/day	population General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/ kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	10.87 mg/ m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	36.73 mg/ m <sup>3</sup>	Workers	Systemic	
<b>PM INKJOY-CP ULV BLUE BALL PEN INK</b> 2-phenoxyethanol	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Oral	9.23 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Oral	9.23 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	20.83 mg/ kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Systemic	
	benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
DNEL		Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Long term Dermal	8 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Oral	20 mg/kg bw/day	General population	Systemic	
DNEL		Short term Dermal	20 mg/kg bw/day	General population	Systemic	
DNEL		Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Short term Dermal	40 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic	
2-(2-ethoxyethoxy)ethanol	DNEL	Long term Dermal	0.9 mg/cm <sup>2</sup>	General population	Local	
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local	
	DNEL	Long term Inhalation	18 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	30 mg/m <sup>3</sup>	Workers	Local	
Phosphoric acid, 2-ethylhexyl ester	DNEL	Long term Oral	50 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Oral	6.25 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	6.25 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/ kg bw/day	Workers	Systemic	

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**SECTION 8: Exposure controls/personal protection**

<b>PM INKJOY-CP ULV BROWN BALL PEN INK</b> 2-phenoxyethanol	DNEL	Long term Inhalation	kg bw/day 10.87 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	36.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Oral	9.23 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	9.23 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	10.42 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	20.83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Systemic
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic
2-(2-ethoxyethoxy)ethanol	DNEL	Long term Dermal	0.9 mg/cm <sup>2</sup>	General population	Local
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Inhalation	18 mg/m <sup>3</sup>	General population	Local
Phosphoric acid, 2-ethylhexyl ester	DNEL	Long term Inhalation	30 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	50 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	6.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	6.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	10.42 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	10.87 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term	36.73 mg/	Workers	Systemic

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## SECTION 8: Exposure controls/personal protection

sodium 3-(p-anilinophenylazo) benzenesulphonate	DNEL	Inhalation Long term Oral	m <sup>3</sup> 1.43 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	1.43 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	2.15 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	4 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	14 mg/m <sup>3</sup>	Workers	Systemic	
<b>PM INKJOY-CP ULV GREEN BALL PEN INK</b> 2-phenoxyethanol	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Oral	9.23 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Oral	9.23 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	20.83 mg/ kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Systemic	
	benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
DNEL		Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Long term Dermal	8 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Oral	20 mg/kg bw/day	General population	Systemic	
DNEL		Short term Dermal	20 mg/kg bw/day	General population	Systemic	
DNEL		Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Short term Dermal	40 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic	
2-(2-ethoxyethoxy)ethanol	DNEL	Long term Dermal	0.9 mg/cm <sup>2</sup>	General population	Local	
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local	
	DNEL	Long term Inhalation	18 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	30 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Oral	50 mg/kg bw/day	General population	Systemic	
<b>PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK</b>						

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2-phenoxyethanol	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	20.83 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Systemic	
	benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
DNEL		Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Long term Dermal	8 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Oral	20 mg/kg bw/day	General population	Systemic	
DNEL		Short term Dermal	20 mg/kg bw/day	General population	Systemic	
DNEL		Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Short term Dermal	40 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic	
2-(2-ethoxyethoxy)ethanol	DNEL	Long term Dermal	0.9 mg/cm <sup>2</sup>	General population	Local	
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local	
	DNEL	Long term Inhalation	18 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	30 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Oral	50 mg/kg bw/day	General population	Systemic	
<b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b> 2-phenoxyethanol	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	20.83 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Local	

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## SECTION 8: Exposure controls/personal protection

benzyl alcohol	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic	
	2-(2-ethoxyethoxy)ethanol	DNEL	Long term Dermal	0.9 mg/cm <sup>2</sup>	General population	Local
		DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local
DNEL		Long term Inhalation	18 mg/m <sup>3</sup>	General population	Local	
DNEL		Long term Inhalation	30 mg/m <sup>3</sup>	Workers	Local	
DNEL		Long term Oral	50 mg/kg bw/day	General population	Systemic	
Phosphoric acid, 2-ethylhexyl ester	DNEL	Long term Oral	6.25 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	6.25 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	10.87 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	36.73 mg/m <sup>3</sup>	Workers	Systemic	
<b>PM INKJOY-CP ULV PINK BALL PEN INK</b> 2-phenoxyethanol	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	20.83 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Systemic	
	benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic

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## SECTION 8: Exposure controls/personal protection

Phosphoric acid, 2-ethylhexyl ester	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Oral	6.25 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	6.25 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	10.87 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	36.73 mg/m <sup>3</sup>	Workers	Systemic	
	2-(2-ethoxyethoxy)ethanol	DNEL	Long term Dermal	0.9 mg/cm <sup>2</sup>	General population	Local
DNEL		Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local	
DNEL		Long term Inhalation	18 mg/m <sup>3</sup>	General population	Local	
DNEL		Long term Inhalation	30 mg/m <sup>3</sup>	Workers	Local	
DNEL		Long term Oral	50 mg/kg bw/day	General population	Systemic	
<b>PM INKJOY-CP ULV RED BALL PEN INK</b> 2-phenoxyethanol	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	20.83 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Systemic	
	benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
DNEL		Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic	

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## SECTION 8: Exposure controls/personal protection

2-(2-ethoxyethoxy)ethanol	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Dermal	0.9 mg/cm <sup>2</sup>	General population	Local	
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local	
	DNEL	Long term Inhalation	18 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	30 mg/m <sup>3</sup>	Workers	Local	
	Phosphoric acid, 2-ethylhexyl ester	DNEL	Long term Oral	50 mg/kg bw/day	General population	Systemic
		DNEL	Long term Oral	6.25 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	6.25 mg/kg bw/day	General population	Systemic
DNEL		Long term Dermal	10.42 mg/kg bw/day	Workers	Systemic	
DNEL		Long term Inhalation	10.87 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Long term Inhalation	36.73 mg/m <sup>3</sup>	Workers	Systemic	
<b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b> 2-phenoxyethanol	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Oral	9.23 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10.42 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	20.83 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Systemic	
	benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic
		DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
		DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic

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## SECTION 8: Exposure controls/personal protection

2-(2-ethoxyethoxy)ethanol	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.9 mg/cm <sup>2</sup>	General population	Local
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Inhalation	18 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	30 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	50 mg/kg bw/day	General population	Systemic
<b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b> 2-phenoxyethanol	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Oral	9.23 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	9.23 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	10.42 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	20.83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	2.41 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
benzyl alcohol	DNEL	Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	6.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	6.25 mg/kg bw/day	General population	Systemic
Phosphoric acid, 2-ethylhexyl ester	DNEL	Long term Oral	6.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	6.25 mg/kg bw/day	General population	Systemic

## SECTION 8: Exposure controls/personal protection

2-(2-ethoxyethoxy)ethanol	DNEL	Long term Dermal	10.42 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	10.87 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	36.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.9 mg/cm <sup>2</sup>	General population	Local
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Inhalation	18 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	30 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	50 mg/kg bw/day	General population	Systemic

### PNECs

No PNECs available

## 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	: Liquid.
Colour	: Various
Odour	: Not available.
Odour threshold	: Not available.
Melting point/freezing point	:
Initial boiling point and boiling range	:
Flammability	: Not available.
Lower and upper explosion limit	:
Flash point	: Closed cup: 101°C (213.8°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
pH	: Not available.
Viscosity	: Not available.
Solubility(ies)	:
Solubility in water	: Not available.
Partition coefficient: n-octanol/ water	:
Vapour pressure	: Not available.
Evaporation rate	:
Relative density	:
Density	:
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
<u>Particle characteristics</u>	
Median particle size	: Not applicable.

### 9.2 Other information

Molecular weight :

## SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: No specific data.

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## SECTION 10: Stability and reactivity

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>PM INKJOY-CP ULV BLACK BALL PEN INK</b>				
2-phenoxyethanol	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
C.I. Basic Violet 1	LD50 Oral	Rat	413 mg/kg	-
sodium 3-(p-anilinophenylazo) benzenesulphonate	LD50 Oral	Rat	5 g/kg	-
1,1'-oxydipropan-2-ol	LD50 Oral	Rat	14800 mg/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-
<b>PM INKJOY-CP ULV BLUE BALL PEN INK</b>				
2-phenoxyethanol	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
1,1'-oxydipropan-2-ol	LD50 Oral	Rat	14800 mg/kg	-
C.I. Basic Violet 1	LD50 Oral	Rat	413 mg/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-
<b>PM INKJOY-CP ULV BROWN BALL PEN INK</b>				
2-phenoxyethanol	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
1,1'-oxydipropan-2-ol	LD50 Oral	Rat	14800 mg/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-
chrysoidine	LD50 Oral	Rat	1650 mg/kg	-
C.I. Basic Violet 1	LD50 Oral	Rat	413 mg/kg	-
sodium 3-(p-anilinophenylazo) benzenesulphonate	LD50 Oral	Rat	5 g/kg	-
<b>PM INKJOY-CP ULV GREEN BALL PEN INK</b>				
2-phenoxyethanol	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
1,1'-oxydipropan-2-ol	LD50 Oral	Rat	14800 mg/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-
<b>PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK</b>				
2-phenoxyethanol	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-

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1,1'-oxydipropan-2-ol	LD50 Oral	Rat	14800 mg/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-
<b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b>				
2-phenoxyethanol	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
1,1'-oxydipropan-2-ol	LD50 Oral	Rat	14800 mg/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-
<b>PM INKJOY-CP ULV PINK BALL PEN INK</b>				
2-phenoxyethanol	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
1,1'-oxydipropan-2-ol	LD50 Oral	Rat	14800 mg/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-
<b>PM INKJOY-CP ULV RED BALL PEN INK</b>				
2-phenoxyethanol	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
1,1'-oxydipropan-2-ol	LD50 Oral	Rat	14800 mg/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-
chrysoidine	LD50 Oral	Rat	1650 mg/kg	-
<b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b>				
2-phenoxyethanol	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
1,1'-oxydipropan-2-ol	LD50 Oral	Rat	14800 mg/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-
<b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b>				
2-phenoxyethanol	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
1,1'-oxydipropan-2-ol	LD50 Oral	Rat	14800 mg/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-

**Conclusion/Summary** : Not available.

### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)

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<b>PM INKJOY-CP ULV BLACK BALL PEN INK</b>					
PM INKJOY-CP ULV BLACK BALL PEN INK	500	N/A	N/A	N/A	N/A
2-phenoxyethanol	1394	14422	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
C.I. Basic Violet 1	413	N/A	N/A	N/A	N/A
sodium 3-(p-anilinophenylazo)benzenesulphonate	5000	N/A	N/A	N/A	N/A
1,1'-oxydipropyl-2-ol	14800	N/A	N/A	N/A	N/A
2-(2-ethoxyethoxy)ethanol	7500	N/A	N/A	N/A	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A
<b>PM INKJOY-CP ULV BLUE BALL PEN INK</b>					
PM INKJOY-CP ULV BLUE BALL PEN INK	500	N/A	N/A	N/A	N/A
2-phenoxyethanol	1394	14422	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
1,1'-oxydipropyl-2-ol	14800	N/A	N/A	N/A	N/A
C.I. Basic Violet 1	413	N/A	N/A	N/A	N/A
2-(2-ethoxyethoxy)ethanol	7500	N/A	N/A	N/A	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A
<b>PM INKJOY-CP ULV BROWN BALL PEN INK</b>					
PM INKJOY-CP ULV BROWN BALL PEN INK	500	N/A	N/A	N/A	N/A
2-phenoxyethanol	1394	14422	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
1,1'-oxydipropyl-2-ol	14800	N/A	N/A	N/A	N/A
2-(2-ethoxyethoxy)ethanol	7500	N/A	N/A	N/A	N/A
chrysoidine	1650	N/A	N/A	N/A	N/A
9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium, salt with 4,5-dihydro-5-oxo-1-(4-sulphophenyl)-4-[(4-sulphophenyl)azo]-1H-pyrazole-3-carboxylic acid (3:1)	500	N/A	N/A	N/A	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A
C.I. Basic Violet 1	413	N/A	N/A	N/A	N/A
sodium 3-(p-anilinophenylazo)benzenesulphonate	5000	N/A	N/A	N/A	N/A
<b>PM INKJOY-CP ULV GREEN BALL PEN INK</b>					
2-phenoxyethanol	1394	14422	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
1,1'-oxydipropyl-2-ol	14800	N/A	N/A	N/A	N/A
2-(2-ethoxyethoxy)ethanol	7500	N/A	N/A	N/A	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A
<b>PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK</b>					
2-phenoxyethanol	1394	14422	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
1,1'-oxydipropyl-2-ol	14800	N/A	N/A	N/A	N/A
2-(2-ethoxyethoxy)ethanol	7500	N/A	N/A	N/A	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A
<b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b>					
2-phenoxyethanol	1394	14422	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
1,1'-oxydipropyl-2-ol	14800	N/A	N/A	N/A	N/A
2-(2-ethoxyethoxy)ethanol	7500	N/A	N/A	N/A	N/A
9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium, salt with 4,5-dihydro-5-oxo-1-(4-sulphophenyl)-4-[(4-sulphophenyl)azo]-1H-pyrazole-3-carboxylic acid (3:1)	500	N/A	N/A	N/A	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A
<b>PM INKJOY-CP ULV PINK BALL PEN INK</b>					
2-phenoxyethanol	1394	14422	N/A	N/A	N/A

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benzyl alcohol	1230	N/A	N/A	11	N/A
1,1'-oxydipropan-2-ol	14800	N/A	N/A	N/A	N/A
2-(2-ethoxyethoxy)ethanol	7500	N/A	N/A	N/A	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A
<b>PM INKJOY-CP ULV RED BALL PEN INK</b>					
2-phenoxyethanol	1394	14422	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
1,1'-oxydipropan-2-ol	14800	N/A	N/A	N/A	N/A
9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride	100	N/A	N/A	N/A	N/A
2-(2-ethoxyethoxy)ethanol	7500	N/A	N/A	N/A	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A
chrysoidine	1650	N/A	N/A	N/A	N/A
<b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b>					
2-phenoxyethanol	1394	14422	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
1,1'-oxydipropan-2-ol	14800	N/A	N/A	N/A	N/A
2-(2-ethoxyethoxy)ethanol	7500	N/A	N/A	N/A	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A
<b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b>					
2-phenoxyethanol	1394	14422	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
1,1'-oxydipropan-2-ol	14800	N/A	N/A	N/A	N/A
2-(2-ethoxyethoxy)ethanol	7500	N/A	N/A	N/A	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>PM INKJOY-CP ULV BLACK BALL PEN INK</b>					
2-phenoxyethanol	Eyes - Moderate irritant	Rabbit	-	6 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250 ug	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
benzyl alcohol	Skin - Mild irritant	Man	-	48 hours 16 mg	-
	Skin - Moderate irritant	Pig	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
1,1'-oxydipropan-2-ol	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 uL	-
2-(2-ethoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	125 mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>PM INKJOY-CP ULV BLUE BALL PEN INK</b>					
2-phenoxyethanol	Eyes - Moderate irritant	Rabbit	-	6 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250 ug	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
benzyl alcohol	Skin - Mild irritant	Man	-	48 hours 16 mg	-
	Skin - Moderate irritant	Pig	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-

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1,1'-oxydipropan-2-ol	Eyes - Mild irritant	Rabbit	-	mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
2-(2-ethoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Eyes - Moderate irritant	Rabbit	-	uL	-
	Skin - Mild irritant	Rabbit	-	125 mg	-
<b>PM INKJOY-CP ULV BROWN BALL PEN INK</b> 2-phenoxyethanol	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg	-
benzyl alcohol	Skin - Mild irritant	Man	-	6 mg	-
	Skin - Moderate irritant	Pig	-	24 hours 250	-
	Skin - Moderate irritant	Rabbit	-	ug	-
1,1'-oxydipropan-2-ol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Moderate irritant	Rabbit	-	mg	-
2-(2-ethoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	48 hours 16	-
	Eyes - Moderate irritant	Rabbit	-	mg	-
	Skin - Mild irritant	Rabbit	-	100 %	-
chrysoidine	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
			-	mg	-
<b>PM INKJOY-CP ULV GREEN BALL PEN INK</b> 2-phenoxyethanol	Eyes - Moderate irritant	Rabbit	-	6 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
	Skin - Mild irritant	Rabbit	-	ug	-
benzyl alcohol	Skin - Mild irritant	Man	-	24 hours 500	-
	Skin - Moderate irritant	Pig	-	mg	-
	Skin - Moderate irritant	Rabbit	-	48 hours 16	-
1,1'-oxydipropan-2-ol	Eyes - Mild irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
2-(2-ethoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
<b>PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK</b> 2-phenoxyethanol	Eyes - Moderate irritant	Rabbit	-	6 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
	Skin - Mild irritant	Rabbit	-	ug	-
benzyl alcohol	Skin - Mild irritant	Man	-	24 hours 500	-
	Skin - Moderate irritant	Pig	-	mg	-
	Skin - Moderate irritant	Rabbit	-	48 hours 16	-
			-	mg	-
			-	100 %	-
			-	24 hours 100	-

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1,1'-oxydipropan-2-ol	Eyes - Mild irritant	Rabbit	-	mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
2-(2-ethoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Eyes - Moderate irritant	Rabbit	-	uL	-
	Skin - Mild irritant	Rabbit	-	125 mg	-
<b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b>	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg	-
2-phenoxyethanol	Eyes - Moderate irritant	Rabbit	-	6 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
	Skin - Mild irritant	Rabbit	-	ug	-
benzyl alcohol	Skin - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Moderate irritant	Man	-	mg	-
	Skin - Moderate irritant	Pig	-	48 hours 16	-
1,1'-oxydipropan-2-ol	Eyes - Mild irritant	Rabbit	-	mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
2-(2-ethoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
<b>PM INKJOY-CP ULV PINK BALL PEN INK</b>	Eyes - Moderate irritant	Rabbit	-	6 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
	Skin - Mild irritant	Rabbit	-	ug	-
benzyl alcohol	Skin - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Moderate irritant	Man	-	mg	-
	Skin - Moderate irritant	Pig	-	48 hours 16	-
1,1'-oxydipropan-2-ol	Eyes - Mild irritant	Rabbit	-	mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
2-(2-ethoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
<b>PM INKJOY-CP ULV RED BALL PEN INK</b>	Eyes - Moderate irritant	Rabbit	-	6 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
	Skin - Mild irritant	Rabbit	-	ug	-
benzyl alcohol	Skin - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Moderate irritant	Man	-	mg	-
	Skin - Moderate irritant	Pig	-	48 hours 16	-
1,1'-oxydipropan-2-ol	Eyes - Mild irritant	Rabbit	-	mg	-
	Eyes - Mild irritant	Rabbit	-	100 %	-
	Eyes - Mild irritant	Rabbit	-	24 hours 100	-

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	Skin - Moderate irritant	Rabbit	-	24 hours 500 uL	-
2-(2-ethoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	125 mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
chrysoidine	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
<b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b>					
2-phenoxyethanol	Eyes - Moderate irritant	Rabbit	-	6 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250 ug	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
benzyl alcohol	Skin - Mild irritant	Man	-	48 hours 16 mg	-
	Skin - Moderate irritant	Pig	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
1,1'-oxydipropan-2-ol	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 uL	-
2-(2-ethoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	125 mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b>					
2-phenoxyethanol	Eyes - Moderate irritant	Rabbit	-	6 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250 ug	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
benzyl alcohol	Skin - Mild irritant	Man	-	48 hours 16 mg	-
	Skin - Moderate irritant	Pig	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
1,1'-oxydipropan-2-ol	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 uL	-
2-(2-ethoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	125 mg	-
	Eyes - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

**Conclusion/Summary** : Not available.

**Sensitisation**

**Conclusion/Summary** : Not available.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

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## SECTION 11: Toxicological information

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<b>PM INKJOY-CP ULV BLACK BALL PEN INK</b> 2-phenoxyethanol	Category 3	-	Respiratory tract irritation
(Z)-octadec-9-enylamine	Category 3	-	Respiratory tract irritation
<b>PM INKJOY-CP ULV BLUE BALL PEN INK</b> 2-phenoxyethanol	Category 3	-	Respiratory tract irritation
(Z)-octadec-9-enylamine	Category 3	-	Respiratory tract irritation
<b>PM INKJOY-CP ULV BROWN BALL PEN INK</b> 2-phenoxyethanol	Category 3	-	Respiratory tract irritation
(Z)-octadec-9-enylamine	Category 3	-	Respiratory tract irritation
<b>PM INKJOY-CP ULV GREEN BALL PEN INK</b> 2-phenoxyethanol	Category 3	-	Respiratory tract irritation
(Z)-octadec-9-enylamine	Category 3	-	Respiratory tract irritation
<b>PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK</b> 2-phenoxyethanol	Category 3	-	Respiratory tract irritation
(Z)-octadec-9-enylamine	Category 3	-	Respiratory tract irritation
<b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b> 2-phenoxyethanol	Category 3	-	Respiratory tract irritation
(Z)-octadec-9-enylamine	Category 3	-	Respiratory tract irritation
<b>PM INKJOY-CP ULV PINK BALL PEN INK</b> 2-phenoxyethanol	Category 3	-	Respiratory tract irritation
(Z)-octadec-9-enylamine	Category 3	-	Respiratory tract irritation
<b>PM INKJOY-CP ULV RED BALL PEN INK</b> 2-phenoxyethanol	Category 3	-	Respiratory tract irritation
(Z)-octadec-9-enylamine	Category 3	-	Respiratory tract irritation
<b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b> 2-phenoxyethanol	Category 3	-	Respiratory tract irritation
(Z)-octadec-9-enylamine	Category 3	-	Respiratory tract irritation
<b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b> 2-phenoxyethanol	Category 3	-	Respiratory tract irritation

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## SECTION 11: Toxicological information

(Z)-octadec-9-enylamine	Category 3	-	Respiratory tract irritation
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### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<b>PM INKJOY-CP ULV BLACK BALL PEN INK</b> (Z)-octadec-9-enylamine	Category 2	-	gastrointestinal tract, immune system, liver
<b>PM INKJOY-CP ULV BLUE BALL PEN INK</b> (Z)-octadec-9-enylamine	Category 2	-	gastrointestinal tract, immune system, liver
<b>PM INKJOY-CP ULV BROWN BALL PEN INK</b> (Z)-octadec-9-enylamine	Category 2	-	gastrointestinal tract, immune system, liver
<b>PM INKJOY-CP ULV GREEN BALL PEN INK</b> (Z)-octadec-9-enylamine	Category 2	-	gastrointestinal tract, immune system, liver
<b>PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK</b> (Z)-octadec-9-enylamine	Category 2	-	gastrointestinal tract, immune system, liver
<b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b> (Z)-octadec-9-enylamine	Category 2	-	gastrointestinal tract, immune system, liver
<b>PM INKJOY-CP ULV PINK BALL PEN INK</b> (Z)-octadec-9-enylamine	Category 2	-	gastrointestinal tract, immune system, liver
<b>PM INKJOY-CP ULV RED BALL PEN INK</b> (Z)-octadec-9-enylamine	Category 2	-	gastrointestinal tract, immune system, liver
<b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b> (Z)-octadec-9-enylamine	Category 2	-	gastrointestinal tract, immune system, liver
<b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b> (Z)-octadec-9-enylamine	Category 2	-	gastrointestinal tract, immune system, liver

### Aspiration hazard

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Product/ingredient name	Result
<b>PM INKJOY-CP ULV BLACK BALL PEN INK</b> (Z)-octadec-9-enylamine	ASPIRATION HAZARD - Category 1
<b>PM INKJOY-CP ULV BLUE BALL PEN INK</b> (Z)-octadec-9-enylamine	ASPIRATION HAZARD - Category 1
<b>PM INKJOY-CP ULV BROWN BALL PEN INK</b> (Z)-octadec-9-enylamine	ASPIRATION HAZARD - Category 1
<b>PM INKJOY-CP ULV GREEN BALL PEN INK</b> (Z)-octadec-9-enylamine	ASPIRATION HAZARD - Category 1
<b>PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK</b> (Z)-octadec-9-enylamine	ASPIRATION HAZARD - Category 1
<b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b> (Z)-octadec-9-enylamine	ASPIRATION HAZARD - Category 1
<b>PM INKJOY-CP ULV PINK BALL PEN INK</b> (Z)-octadec-9-enylamine	ASPIRATION HAZARD - Category 1
<b>PM INKJOY-CP ULV RED BALL PEN INK</b> (Z)-octadec-9-enylamine	ASPIRATION HAZARD - Category 1
<b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b> (Z)-octadec-9-enylamine	ASPIRATION HAZARD - Category 1
<b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b> (Z)-octadec-9-enylamine	ASPIRATION HAZARD - Category 1

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye damage.  
**Inhalation** : May cause respiratory irritation.  
**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
 pain  
 watering  
 redness

**Inhalation** : Adverse symptoms may include the following:  
 respiratory tract irritation  
 coughing  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations

**Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations

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## SECTION 11: Toxicological information

**Ingestion** : Adverse symptoms may include the following:  
 stomach pains  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** :

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>PM INKJOY-CP ULV BLACK BALL PEN INK</b>			
2-phenoxyethanol	Acute LC50 344000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
benzyl alcohol	Acute LC50 10 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
C.I. Basic Violet 1	Acute LC50 28800 µg/l Fresh water	Crustaceans - Cyclops strenuus	48 hours
	Acute LC50 420000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 47 µg/l Fresh water	Fish - Pimephales promelas	96 hours
sodium 3-(p-anilinophenylazo) benzenesulphonate	Acute LC50 1550 µg/l Fresh water	Fish - Channa punctata	96 hours
2-(2-ethoxyethoxy)ethanol	Acute LC50 3340000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 6010000 µg/l Fresh water	Fish - Ictalurus punctatus	96 hours
<b>PM INKJOY-CP ULV BLUE BALL PEN INK</b>			
2-phenoxyethanol	Acute LC50 344000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
benzyl alcohol	Acute LC50 10 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
C.I. Basic Violet 1	Acute LC50 28800 µg/l Fresh water	Crustaceans - Cyclops strenuus	48 hours
	Acute LC50 420000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 47 µg/l Fresh water	Fish - Pimephales promelas	96 hours
2-(2-ethoxyethoxy)ethanol	Acute LC50 3340000 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours

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<p><b>PM INKJOY-CP ULV BROWN BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 2-(2-ethoxyethoxy)ethanol</p> <p>C.I. Basic Violet 1</p> <p>sodium 3-(p-anilinophenylazo) benzenesulphonate</p>	<p>Acute LC50 6010000 µg/l Fresh water</p> <p>Acute LC50 344000 µg/l Fresh water Acute LC50 10 ppm Fresh water Acute LC50 3340000 µg/l Fresh water</p> <p>Acute LC50 6010000 µg/l Fresh water Acute LC50 28800 µg/l Fresh water Acute LC50 420000 µg/l Fresh water Acute LC50 47 µg/l Fresh water Acute LC50 1550 µg/l Fresh water</p>	<p>Neonate Fish - Ictalurus punctatus 96 hours</p> <p>Fish - Pimephales promelas 96 hours Fish - Lepomis macrochirus 96 hours Daphnia - Daphnia magna - Neonate 48 hours</p> <p>Fish - Ictalurus punctatus 96 hours Crustaceans - Cyclops strenuus 48 hours Daphnia - Daphnia magna 48 hours Fish - Pimephales promelas 96 hours Fish - Channa punctata 96 hours</p>
<p><b>PM INKJOY-CP ULV GREEN BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 2-(2-ethoxyethoxy)ethanol</p>	<p>Acute LC50 344000 µg/l Fresh water Acute LC50 10 ppm Fresh water Acute LC50 3340000 µg/l Fresh water</p> <p>Acute LC50 6010000 µg/l Fresh water</p>	<p>Fish - Pimephales promelas 96 hours Fish - Lepomis macrochirus 96 hours Daphnia - Daphnia magna - Neonate 48 hours</p> <p>Fish - Ictalurus punctatus 96 hours</p>
<p><b>PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 2-(2-ethoxyethoxy)ethanol</p>	<p>Acute LC50 344000 µg/l Fresh water Acute LC50 10 ppm Fresh water Acute LC50 3340000 µg/l Fresh water</p> <p>Acute LC50 6010000 µg/l Fresh water</p>	<p>Fish - Pimephales promelas 96 hours Fish - Lepomis macrochirus 96 hours Daphnia - Daphnia magna - Neonate 48 hours</p> <p>Fish - Ictalurus punctatus 96 hours</p>
<p><b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 2-(2-ethoxyethoxy)ethanol</p>	<p>Acute LC50 344000 µg/l Fresh water Acute LC50 10 ppm Fresh water Acute LC50 3340000 µg/l Fresh water</p> <p>Acute LC50 6010000 µg/l Fresh water</p>	<p>Fish - Pimephales promelas 96 hours Fish - Lepomis macrochirus 96 hours Daphnia - Daphnia magna - Neonate 48 hours</p> <p>Fish - Ictalurus punctatus 96 hours</p>
<p><b>PM INKJOY-CP ULV PINK BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 2-(2-ethoxyethoxy)ethanol</p>	<p>Acute LC50 344000 µg/l Fresh water Acute LC50 10 ppm Fresh water Acute LC50 3340000 µg/l Fresh water</p> <p>Acute LC50 6010000 µg/l Fresh water</p>	<p>Fish - Pimephales promelas 96 hours Fish - Lepomis macrochirus 96 hours Daphnia - Daphnia magna - Neonate 48 hours</p> <p>Fish - Ictalurus punctatus 96 hours</p>
<p><b>PM INKJOY-CP ULV RED BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 2-(2-ethoxyethoxy)ethanol</p>	<p>Acute LC50 344000 µg/l Fresh water Acute LC50 10 ppm Fresh water Acute LC50 3340000 µg/l Fresh water</p> <p>Acute LC50 6010000 µg/l Fresh water</p>	<p>Fish - Pimephales promelas 96 hours Fish - Lepomis macrochirus 96 hours Daphnia - Daphnia magna - Neonate 48 hours</p> <p>Fish - Ictalurus punctatus 96 hours</p>
<p><b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 2-(2-ethoxyethoxy)ethanol</p>	<p>Acute LC50 344000 µg/l Fresh water Acute LC50 10 ppm Fresh water Acute LC50 3340000 µg/l Fresh water</p>	<p>Fish - Pimephales promelas 96 hours Fish - Lepomis macrochirus 96 hours Daphnia - Daphnia magna - 48 hours</p>

PM INKJOY INKS (ALL COLORS)

## SECTION 12: Ecological information

<b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 2-(2-ethoxyethoxy)ethanol	Acute LC50 6010000 µg/l Fresh water	Neonate Fish - Ictalurus punctatus	96 hours
	Acute LC50 344000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 10 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 3340000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 6010000 µg/l Fresh water	Fish - Ictalurus punctatus	96 hours

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>PM INKJOY-CP ULV BLACK BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 1,1'-oxydipropan-2-ol 2-(2-ethoxyethoxy)ethanol Phosphoric acid, 2-ethylhexyl ester	1.107 0.87 -1.5 to -0.7 -0.54 <0.3	0.3493 - 4.57 - -	low low low low low
<b>PM INKJOY-CP ULV BLUE BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 1,1'-oxydipropan-2-ol 2-(2-ethoxyethoxy)ethanol Phosphoric acid, 2-ethylhexyl ester	1.107 0.87 -1.5 to -0.7 -0.54 <0.3	0.3493 - 4.57 - -	low low low low low
<b>PM INKJOY-CP ULV BROWN BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 1,1'-oxydipropan-2-ol 2-(2-ethoxyethoxy)ethanol Phosphoric acid, 2-ethylhexyl ester	1.107 0.87 -1.5 to -0.7 -0.54 <0.3	0.3493 - 4.57 - -	low low low low low
<b>PM INKJOY-CP ULV GREEN BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 1,1'-oxydipropan-2-ol 2-(2-ethoxyethoxy)ethanol	1.107 0.87 -1.5 to -0.7 -0.54	0.3493 - 4.57 -	low low low low
<b>PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK</b> 2-phenoxyethanol benzyl alcohol 1,1'-oxydipropan-2-ol 2-(2-ethoxyethoxy)ethanol	1.107 0.87 -1.5 to -0.7 -0.54	0.3493 - 4.57 -	low low low low
<b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b>			

PM INKJOY INKS (ALL COLORS)

## SECTION 12: Ecological information

2-phenoxyethanol	1.107	0.3493	low
benzyl alcohol	0.87	-	low
1,1'-oxydipropan-2-ol	-1.5 to -0.7	4.57	low
2-(2-ethoxyethoxy)ethanol	-0.54	-	low
Phosphoric acid, 2-ethylhexyl ester	<0.3	-	low
<b>PM INKJOY-CP ULV PINK BALL PEN INK</b>			
2-phenoxyethanol	1.107	0.3493	low
benzyl alcohol	0.87	-	low
1,1'-oxydipropan-2-ol	-1.5 to -0.7	4.57	low
Phosphoric acid, 2-ethylhexyl ester	<0.3	-	low
2-(2-ethoxyethoxy)ethanol	-0.54	-	low
<b>PM INKJOY-CP ULV RED BALL PEN INK</b>			
2-phenoxyethanol	1.107	0.3493	low
benzyl alcohol	0.87	-	low
1,1'-oxydipropan-2-ol	-1.5 to -0.7	4.57	low
2-(2-ethoxyethoxy)ethanol	-0.54	-	low
Phosphoric acid, 2-ethylhexyl ester	<0.3	-	low
<b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b>			
2-phenoxyethanol	1.107	0.3493	low
benzyl alcohol	0.87	-	low
1,1'-oxydipropan-2-ol	-1.5 to -0.7	4.57	low
2-(2-ethoxyethoxy)ethanol	-0.54	-	low
<b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b>			
2-phenoxyethanol	1.107	0.3493	low
benzyl alcohol	0.87	-	low
1,1'-oxydipropan-2-ol	-1.5 to -0.7	4.57	low
Phosphoric acid, 2-ethylhexyl ester	<0.3	-	low
2-(2-ethoxyethoxy)ethanol	-0.54	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

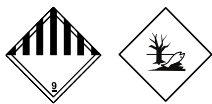
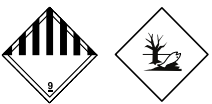
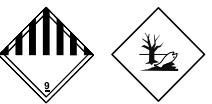
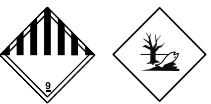
**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number or ID number</b>	UN3082	UN3082	UN3082	UN3082
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C.I. Basic Violet 1, (Z)-octadec-9-enylamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C.I. Basic Violet 1, (Z)-octadec-9-enylamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C.I. Basic Violet 1, (Z)-octadec-9-enylamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C.I. Basic Violet 1, (Z)-octadec-9-enylamine)
<b>14.3 Transport hazard class(es)</b>	9 	9 	9 	9 
<b>14.4 Packing group</b>	III	III	III	III
<b>14.5 Environmental hazards</b>	Yes.	Yes.	Yes.	Yes.

#### Additional information

**ADR/RID** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**Tunnel code** (-)

**ADN** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

PM INKJOY INKS (ALL COLORS)

## SECTION 14: Transport information

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Restricted to professional users.

**Other EU regulations**

**Industrial emissions (integrated pollution prevention and control) - Air** : Listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

**Ozone depleting substances (1005/2009/EU)**

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Persistent Organic Pollutants**

Not listed.

**Seveso Directive**

This product is controlled under the Seveso Directive.

**Danger criteria**

**Category**

**PM INKJOY-CP ULV BLACK BALL PEN INK**  
E2

**PM INKJOY-CP ULV BLUE BALL PEN INK**  
E2

**PM INKJOY-CP ULV BROWN BALL PEN INK**  
E2

**PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK**  
E2

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## SECTION 15: Regulatory information

PM INKJOY-CP ULV ORANGE BALL PEN INK  
E2

PM INKJOY-CP ULV PINK BALL PEN INK  
E2

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: Not determined
<b>Canada</b>	: Not determined.
<b>China</b>	: All components are listed or exempted.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory</b> : All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>New Zealand</b>	: Not determined
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: At least one component is not listed.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined
<b>Viet Nam</b>	: All components are listed or exempted.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

🔍 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
N/A = Not available  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
SGG = Segregation Group  
vPvB = Very Persistent and Very Bioaccumulative

[Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

PM INKJOY INKS (ALL COLORS)

## SECTION 16: Other information

Classification	Justification
<p><b>PM INKJOY-CP ULV BLACK BALL PEN INK</b>                      Acute Tox. 4, H302                      Skin Irrit. 2, H315                      Eye Irrit. 2, H319                      Aquatic Chronic 2, H411</p>	<p>Expert judgment                      Expert judgment                      Expert judgment                      Expert judgment</p>
<p><b>PM INKJOY-CP ULV BLUE BALL PEN INK</b>                      Acute Tox. 4, H302                      Skin Irrit. 2, H315                      Eye Irrit. 2, H319                      Aquatic Chronic 2, H411</p>	<p>Expert judgment                      Expert judgment                      Expert judgment                      Expert judgment</p>
<p><b>PM INKJOY-CP ULV BROWN BALL PEN INK</b>                      Acute Tox. 4, H302                      Skin Irrit. 2, H315                      Eye Irrit. 2, H319                      Muta. 2, H341 (oral)                      Aquatic Chronic 2, H411</p>	<p>Expert judgment                      Expert judgment                      Expert judgment                      Expert judgment                      Expert judgment</p>
<p><b>PM INKJOY-CP ULV GREEN BALL PEN INK</b>                      Skin Irrit. 2, H315                      Eye Irrit. 2, H319                      Skin Sens. 1, H317                      Aquatic Chronic 3, H412</p>	<p>Expert judgment                      Expert judgment                      Expert judgment                      Expert judgment</p>
<p><b>PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK</b>                      Skin Irrit. 2, H315                      Eye Irrit. 2, H319                      Aquatic Chronic 2, H411</p>	<p>Expert judgment                      Expert judgment                      Expert judgment</p>
<p><b>PM INKJOY-CP ULV ORANGE BALL PEN INK</b>                      Skin Irrit. 2, H315                      Eye Irrit. 2, H319                      Aquatic Chronic 2, H411</p>	<p>Expert judgment                      Expert judgment                      Expert judgment</p>
<p><b>PM INKJOY-CP ULV PINK BALL PEN INK</b>                      Eye Irrit. 2, H319                      Aquatic Chronic 2, H411</p>	<p>Expert judgment                      Expert judgment</p>
<p><b>PM INKJOY-CP ULV RED BALL PEN INK</b>                      Skin Irrit. 2, H315                      Eye Irrit. 2, H319                      Aquatic Chronic 3, H412</p>	<p>Expert judgment                      Expert judgment                      Expert judgment</p>
<p><b>PM INKJOY-CP ULV T BLUE BALL PEN INK</b>                      Eye Irrit. 2, H319                      Skin Sens. 1, H317                      Aquatic Chronic 3, H412</p>	<p>Expert judgment                      Expert judgment                      Expert judgment</p>
<p><b>PM INKJOY-CP ULV VIOLET BALL PEN INK</b>                      Skin Irrit. 2, H315                      Eye Dam. 1, H318                      Aquatic Chronic 3, H412</p>	<p>Expert judgment                      Expert judgment                      Expert judgment</p>

[Full text of abbreviated H statements](#)

## SECTION 16: Other information

### PM INKJOY- CP ULV BLACK BALL PEN INK

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### PM INKJOY- CP ULV BLUE BALL PEN INK

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### PM INKJOY- CP ULV BROWN BALL PEN INK

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### PM INKJOY- CP ULV GREEN BALL PEN INK

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.

PM INKJOY INKS (ALL COLORS)

## SECTION 16: Other information

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### PM INKJOY- CP ULV LIGHT GREEN BALL PEN INK

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### PM INKJOY- CP ULV ORANGE BALL PEN INK

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### PM INKJOY- CP ULV PINK BALL PEN INK

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

## SECTION 16: Other information

### PM INKJOY- CP ULV RED BALL PEN INK

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### PM INKJOY- CP ULV T BLUE BALL PEN INK

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### PM INKJOY- CP ULV VIOLET BALL PEN INK

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

[Full text of classifications \[CLP/GHS\]](#)

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## SECTION 16: Other information

### PM INKJOY-CP ULV BLACK BALL PEN INK

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### PM INKJOY-CP ULV BLUE BALL PEN INK

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### PM INKJOY-CP ULV BROWN BALL PEN INK

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### PM INKJOY-CP ULV GREEN BALL PEN INK

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

PM INKJOY INKS (ALL COLORS)

## SECTION 16: Other information

Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### PM INKJOY-CP ULV LIGHT GREEN BALL PEN INK

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### PM INKJOY-CP ULV ORANGE BALL PEN INK

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### PM INKJOY-CP ULV PINK BALL PEN INK

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### PM INKJOY-CP ULV RED BALL PEN INK

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

PM INKJOY INKS (ALL COLORS)

## SECTION 16: Other information

Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Repr. 1	REPRODUCTIVE TOXICITY - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### PM INKJOY-CP ULV T BLUE BALL PEN INK

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### PM INKJOY-CP ULV VIOLET BALL PEN INK

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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