

# SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C5023Series

designation of the mixture

Registration number

**Synonyms** None.

**Issue date** 10-Mar-2015

Version number 02

**Revision date** 29-Aug-2015 **Supersedes date** 10-Mar-2015

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

Identified usesInkjet printingUses advised againstNone known.Company identificationHP Inc UK Limited

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Email: hpcustomer.inquiries@hp.com Poison Information Center 0207771 5307

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

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

#### 2.2. Label elements

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

**Contains:** 2-pyrrolidone, Carbon black, Water

Hazard pictograms None.

Signal word None.

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

**Precautionary statements** 

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Supplemental label

information

Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

**2.3. Other hazards** Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly

carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation. None of the other ingredients in this preparation are classified as carcinogens

according to ACGIH, EU, IARC, MAK, NTP or OSHA.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Material name: C5023Series SDS UK

9455 Version No.: 02 Revision date: 29-Aug-2015 Print date: 29-Aug-2015

### **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water	75-85	7732-18-5 231-791-2	-	-	
Classification:	-				
2-pyrrolidone	<10	616-45-5 210-483-1	01-2119475471-37-XXXX	-	
Classification:	Eye Irrit. 2;H319				
Carbon black	<5	1333-86-4 215-609-9	01-2119384822-32-XXXX	-	
Classification:	-				

**Composition comments** 

This ink supply contains an aqueous ink formulation.

Carbon black is present only in a bound form in this preparation.

## **SECTION 4: First aid measures**

**General information** Not available.

4.1. Description of first aid measures

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

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

attention.

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

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

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

4.2. Most important symptoms and effects, both

acute and delayed

4.3. Indication of any immediate medical attention and special treatment

needed

Not available.

Not available.

## **SECTION 5: Firefighting measures**

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

CO2, water, dry chemical, or foam

**Unsuitable extinguishing** 

media

media

None known.

5.2. Special hazards arising

Not available.

from the substance or

mixture

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

Special fire fighting

procedures

Not available.

**Specific methods** None established.

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency Not available.

responders

Material name: C5023Series SDS UK

9455 Version No.: 02 Revision date: 29-Aug-2015 Print date: 29-Aug-2015 6.2. Environmental

precautions

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

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other

sections

Not available.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

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

Not available. 7.3. Specific end use(s)

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

## 8.1. Control parameters

## **Occupational exposure limits**

## **UK. EH40 Workplace Exposure Limits (WELs)**

Components	Туре	Value	
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3	
,	TWA	3.5 mg/m3	

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

**Recommended monitoring** 

procedures

Not available.

**Derived no-effect level** 

(DNEL)

Not available.

**Predicted no effect** concentrations (PNECs) Not available.

**Exposure guidelines** 

Exposure limits have not been established for this product.

8.2. Exposure controls

Use in a well ventilated area. Appropriate engineering controls Provide adequate ventilation.

### Individual protection measures, such as personal protective equipment

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

Eye/face protection

Skin protection

Not available. Not available.

- Hand protection - Other

Protected gloves not required under intended use.

**Respiratory protection** 

Not available.

Thermal hazards

Not available.

**Hygiene measures** 

Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure** 

controls

Not available.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid. Color Black. Odor Not available. **Odor threshold** Not available.

Melting point/freezing point Initial boiling point and

Not available.

7.8 - 8.8

Not determined

boiling range Flash point

pН

> 199.4 °F (> 93.0 °C) Pensky-Martens Closed Cup

Material name: C5023Series SDS UK **Evaporation rate** Not determined Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower Not determined

Flammability limit -

upper (%)

Not available.

Vapor pressure Not determined

Solubility(ies)

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

(n-octanol/water)

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

9.2. Other information

VOC (Weight %) < 20 g/l

# **SECTION 10: Stability and reactivity**

10.1. Reactivity Not available.

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoid Not available.

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

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

dioxide and/or low molecular weight hydrocarbons.

# **SECTION 11: Toxicological information**

General information Not available. 11.1. Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye

irritation

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

Respiratory sensitization Based on available data, the classification criteria are not met. Skin sensitization Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

> Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a

bound form in this preparation.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

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

- single exposure

Specific target organ toxicity

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

- repeated exposure

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

Material name: C5023Series SDS UK Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

**Acute** 

Oral

LD50 Guinea pig 6500 mg/kg

Rat 6500 mg/kg

Carbon black (CAS 1333-86-4)

Acute Oral

LD50 Rat > 8000 mg/kg

Mixture versus substance

information

Not available.

**Other information** Complete toxicity data are not available for this specific formulation

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

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Product Species Test Results

C5023Series (CAS Mixture)

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

**Aquatic** 

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

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

potential

Not available.

**Partition coefficient** 

n-octanol/water (log Kow)

2-pyrrolidone -0.85

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

12.5. Results of PBT

and vPvB assessment

Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** Not available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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

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

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

Regulations.

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

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

## **SECTION 14: Transport information**

#### DOT

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

Material name: C5023Series SDS UK

#### **IMDG**

Not regulated as dangerous goods.

#### **ADR**

Not regulated as dangerous goods.

Further information Not a dan

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

# **SECTION 15: Regulatory information**

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

#### **EU** regulations

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

Not listed.

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

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

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

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

#### **Authorizations**

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization

Not listed.

#### **Restrictions on use**

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

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

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

# Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances Not regulated.

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

Not regulated.

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

Not regulated.

## Other regulations

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

Material name: C5023Series SDS UK

### Other information

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).

National regulations 15.2. Chemical safety Not available. Not available.

assessment

## **SECTION 16: Other information**

References
Information on evaluation method leading to the

Not available. Not available.

classification of mixture

Issue date

10-Mar-2015

Revision information

None.

Training information

Not available.

Disclaimer

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countries.

Manufacturer information

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#### **Explanation of abbreviations**

**ACGIH** American Conference of Governmental Industrial Hygienists

**CAS** Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

**CFR** Code of Federal Regulations

**COC** Cleveland Open Cup

**DOT** Department of Transportation

**EPCRA** Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

**OSHA** Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

**RCRA** Resource Conservation and Recovery Act

**REC** Recommended

**REL** Recommended Exposure Limit

SARA Superfund Amendments and Reauthorization Act of 1986

STEL Short-Term Exposure Limit

**TCLP** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

**List of abbreviations** Not available.

Material name: C5023Series SDS UK