



# SAFETY DATA SHEET

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

**Important information** \*\*\* This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. \*\*\*

### 1.1. Product identifier

**Trade name or designation of the mixture** 51640ASeries  
**Registration number** -  
**Synonyms** None.  
**Issue date** 17-May-2018  
**Version number** 10  
**Revision date** 03-Jul-2020  
**Supersedes date** 25-Apr-2020

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

**Identified uses** Inkjet printing  
**Uses advised against** None known.

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

**Company identification** HP Inc. UK Limited  
Cain Road, Amen Corner  
Amen Corner  
Bracknell, Berkshire RG12 1HN  
United Kingdom

### Telephone

### HP Inc. health effects line

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

### HP Inc. Customer Care Line

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

**Email:** [hpcustomer.inquiries@hp.com](mailto:hpcustomer.inquiries@hp.com)

**1.4 Emergency telephone number** 1-760-710-0048

## 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 as hazardous according to Regulation (EC) 1272/2008.

2-pyrrolidone: Specific Concentration Limits, Reproductive toxicity Category 1B, fertility or the unborn child 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11.

### 2.2. Label elements

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

**Hazard pictograms** None.  
**Signal word** None.  
**Hazard statements** The mixture does not meet the criteria for classification.

#### Precautionary statements

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

**Supplemental label information** Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

**2.3. Other hazards** Complete toxicity data are not available for this specific formulation.

Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name              | %   | CAS-No. / EC No.       | REACH Registration No. | Index No.    | Notes |
|----------------------------|---|------------------------|------------------------|--------------|-------|
| Water                      | 75-85   | 7732-18-5<br>231-791-2 | -                      | -            |       |
| <b>Classification:</b>     | -   |                        |                        |              |       |
| 2-pyrrolidone              | <3  | 616-45-5<br>210-483-1  | 01-2119475471-37-XXXX  | -            |       |
| <b>Classification:</b>     | Eye Irrit. 2;H319, Repr. 1B;H360  |                        |                        |              |       |
| Isopropyl alcohol          | <2.5  | 67-63-0<br>200-661-7   | -                      | 603-117-00-0 |       |
| <b>Classification:</b>     | Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336  |                        |                        |              |       |
| 1,2-Benzisothiazolin-3-one | <0.05   | 2634-33-5<br>220-120-9 | -                      | 613-088-00-6 |       |
| <b>Classification:</b>     | Acute Tox. 4;H302, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Dam. 1;H318, Aquatic Acute 1;H400 |                        |                        |              |       |

**Composition comments** This ink supply contains an aqueous ink formulation.

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

2-pyrrolidone: Specific Concentration Limit 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11.

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## 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** Contact with skin and eyes may result in irritation.

**4.3. Indication of any immediate medical attention and special treatment needed** Not available.

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## SECTION 5: Firefighting measures

**General fire hazards** Contact with skin and eyes may result in irritation.

### 5.1. Extinguishing media

**Suitable extinguishing media** CO<sub>2</sub>, water, dry chemical, or foam

**Unsuitable extinguishing media** None known.

**5.2. Special hazards arising from the substance or mixture** Not available.

|  |                   |
|--|-------------------|
| <b>5.3. Advice for firefighters</b>                  |                   |
| <b>Special protective equipment for firefighters</b> | None established. |
| <b>Special fire fighting procedures</b>              | Not available.    |
| <b>Specific methods</b>                              | None established. |

## SECTION 6: Accidental release measures

|   |   |
|---|---|
| <b>6.1. Personal precautions, protective equipment and emergency procedures</b> |   |
| <b>For non-emergency personnel</b>  | Wear appropriate personal protective equipment.   |
| <b>For emergency responders</b>   | Not available.  |
| <b>6.2. Environmental precautions</b>   | Do not let product enter drains. Do not flush into surface water or sanitary sewer system.  |
| <b>6.3. Methods and material for containment and cleaning up</b>                | Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Slowly vacuum or sweep the material into a bag or other sealed container.<br>Dispose of in compliance with federal, state, and local regulations. |
| <b>6.4. Reference to other sections</b>   | Not available.  |

## SECTION 7: Handling and storage

|  |   |
|--|---|
| <b>7.1. Precautions for safe handling</b>                                | Avoid contact with skin, eyes and clothing.                               |
| <b>7.2. Conditions for safe storage, including any incompatibilities</b> | Keep out of the reach of children. Keep away from excessive heat or cold. |
| <b>7.3. Specific end use(s)</b>  | Not available.  |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Iceland. OELs. Regulation 154/1999 on occupational exposure limits

| Components                      | Type | Value     |
|---------------------------------|------|-----------|
| Isopropyl alcohol (CAS 67-63-0) | TWA  | 490 mg/m3 |
|                                 |      | 200 ppm   |

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

**Recommended monitoring procedures** Not available.

#### Derived no effect levels (DNELs)

| Components                   | Type      | Route      | Value           | Form                      |
|------------------------------|-----------|------------|-----------------|---------------------------|
| 2-pyrrolidone (CAS 616-45-5) | Consumers | Dermal     | 6 mg/kg bw/d    | Systemic long term        |
|                              |           | Dermal     | 167 mg/kg bw/d  | Systemic acute short term |
|                              |           | Inhalation | 17.1 mg/m3      | Systemic long term        |
|                              |           | Oral       | 5.2 mg/kg bw/d  | Systemic long term        |
|                              | Workers   | Oral       | 33.3 mg/kg bw/d | Systemic acute short term |
|                              |           | Dermal     | 277 mg/kg bw/d  | Systemic acute short term |
|                              |           | Dermal     | 10 mg/kg bw/d   | Systemic long term        |
|                              |           | Inhalation | 57.8 mg/m3      | Systemic long term        |

#### Predicted no effect concentrations (PNECs)

| Components                   | Type           | Route        | Value        | Form       |
|------------------------------|----------------|--------------|--------------|------------|
| 2-pyrrolidone (CAS 616-45-5) | Not applicable | Freshwater   | 0.5 mg/l     | Releases   |
|                              |                | Intermittent | 0.5 mg/l     |            |
|                              |                | Marine water | 0.05 mg/l    | Freshwater |
|                              |                | Sediment     | 0.4205 mg/kg |            |
|                              |                | Soil         | 0.0612 mg/kg |            |
|                              |                | STP          | 10 mg/l      |            |

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

#### Iceland OELs: Skin designation

Isopropyl alcohol (CAS 67-63-0) Can be absorbed through the skin.

## 8.2. Exposure controls

**Appropriate engineering controls** Use in a well ventilated area.

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

**General information** Not available.

**Eye/face protection** Not available.

**Skin protection**

- **Hand protection** Recommended gloves: Nitrile 4 mil minimum thickness.

- **Other** Use personal protective equipment to minimize exposure to skin and eye.

**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.

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## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state** Liquid.

**Form** Not available.

**Color** Black.

**Odor** Not available.

**Odor threshold** Not available.

**pH** 7.8 - 8.4

**Initial boiling point and boiling range** 200 °F (93.33 °C)

**Flash point** 131.0 - 136.0 °F (55.0 - 57.8 °C) Pensky-Martens Closed Cup

**Evaporation rate** Not determined

**Flammability (solid, gas)** Not available.

#### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Vapor pressure** Not determined

**Vapor density** Not available.

#### Solubility(ies)

**Solubility (water)** Soluble in water

**Partition coefficient (n-octanol/water)** Not determined

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** > 2 cp

**Explosive properties** Not available.

**Oxidizing properties** Not determined

### 9.2. Other information

No ignition, sustained combustion or flashing detected using the Sustained Combustibility Test (method in US 49CFR173, Appendix H).

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

**Bulk density** 1 - 1.2 gm/ml

**Percent volatile** 3.1 % estimated

**Specific gravity** 1 - 1.2

**VOC** < 116.6 g/l

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## SECTION 10: Stability and reactivity

**10.1. Reactivity** Not available.

**10.2. Chemical stability** Stable under recommended storage conditions.

|   |   |
|---|---|
| <b>10.3. Possibility of hazardous reactions</b> | Will not occur.   |
| <b>10.4. Conditions to avoid</b>                | Not available.  |
| <b>10.5. Incompatible materials</b>             | Incompatible with strong bases and oxidizing agents.  |
| <b>10.6. Hazardous decomposition products</b>   | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |

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## SECTION 11: Toxicological information

|   |  |
|---|--|
| <b>General information</b>                      | Not available.   |
| <b>Information on likely routes of exposure</b> |  |
| <b>Inhalation</b>                               | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| <b>Skin contact</b>                             | Contact with skin may result in mild irritation.   |
| <b>Eye contact</b>                              | Contact with eyes may result in mild irritation.   |
| <b>Ingestion</b>                                | Health injuries are not known or expected under normal use.  |
| <b>Symptoms</b>                                 | Not available.   |

### 11.1. Information on toxicological effects

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

| <b>Components</b>            | <b>Species</b> | <b>Test Results</b> |
|------------------------------|----------------|---------------------|
| 2-pyrrolidone (CAS 616-45-5) |                |                     |
| <u><b>Acute</b></u>          |                |                     |
| <b>Oral</b>                  |                |                     |
| LD50                         | Rat            | > 5000 mg/kg        |

**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. Not classified as an irritant according to, OECD 405.

**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.

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

2-pyrrolidone: This component showed developmental effects only at high doses that were toxic to pregnant test animals (OECD Testing Guideline 414: Prenatal Developmental Toxicity Study). Uptake by people of small doses is not expected to cause developmental toxicity. This component has not caused adverse effects on sexual function or damage to fertility in an animal study (OECD Testing Guideline 443: Extended One-Generation Reproductive Toxicity Study).

**Specific target organ toxicity - single exposure** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

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

**Mixture versus substance information** Not available.

**Other information** Complete toxicity data are not available for this specific formulation. Refer to Section 2 for potential health effects and Section 4 for first aid measures.

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## SECTION 12: Ecological information

### 12.1. Toxicity

**Aquatic toxicity** Not expected to be harmful to aquatic organisms.

| Product  | Species  |   | Test Results          |
|--|--|---|-----------------------|
| 51640ASeries   |  |   |                       |
| <b>Aquatic</b>   |  |   |                       |
| <i>Acute</i>   |  |   |                       |
| Fish   | LC50   | Fathead minnow ( <i>Pimephales promelas</i> ) | > 750 mg/l, 96 hours  |
| Components   | Species  |   | Test Results          |
| 2-pyrrolidone (CAS 616-45-5)                           |  |   |                       |
| <b>Aquatic</b>   |  |   |                       |
| Crustacea  | EC50   | Water flea ( <i>Daphnia pulex</i> )           | 13.21 mg/l, 48 hours  |
| Isopropyl alcohol (CAS 67-63-0)                        |  |   |                       |
| <b>Aquatic</b>   |  |   |                       |
| <i>Acute</i>   |  |   |                       |
| Algae  | EC50   | Algae   | > 1000 mg/l, 72 hours |
| Crustacea  | EC50   | Daphnia                                       | 13299 mg/l, 48 hours  |
| Fish   | LC50   | Fathead minnow ( <i>Pimephales promelas</i> ) | 9460 mg/l, 96 hours   |
| <b>12.2. Persistence and degradability</b>             | No data is available on the degradability of this product. |   |                       |
| <b>12.3. Bioaccumulative potential</b>                 | Not available.   |   |                       |
| <b>Partition coefficient n-octanol/water (log Kow)</b> |  |   |                       |
| 2-pyrrolidone  |  | -0.85   |                       |
| Isopropyl alcohol                                      |  | 0.05  |                       |
| <b>Bioconcentration factor (BCF)</b>                   | Not available.   |   |                       |
| <b>12.4. Mobility in soil</b>                          | Not available.   |   |                       |
| <b>12.5. Results of PBT and vPvB assessment</b>        | Not a PBT or vPvB substance or mixture.                    |   |                       |
| <b>12.6. Other adverse effects</b>                     | Not available.   |   |                       |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                     |   |
|-------------------------------------|---|
| <b>Residual waste</b>               | Not available.  |
| <b>Contaminated packaging</b>       | No special precautions.   |
| <b>EU waste code</b>                | Not available.  |
| <b>Disposal methods/information</b> | Do not allow this material to drain into sewers/water supplies.<br>Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.<br><br>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 <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a> . |

## SECTION 14: Transport information

|                            |  |
|----------------------------|--|
| <b>DOT</b>                 | Not regulated as dangerous goods.  |
| <b>IATA</b>                | Not regulated as dangerous goods.  |
| <b>IMDG</b>                | Not regulated as dangerous goods.  |
| <b>ADR</b>                 | Not regulated as dangerous goods.  |
| <b>Further information</b> | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br><br>No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous Goods Regulations Section 3.3.1.3.<br>No ignition, sustained combustion or flashing detected using the sustained combustibility test (method in US CFR173, Appendix H). |

## SECTION 15: Regulatory information

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

Material name: 51640ASeries

9235 Version #: 10 Revision date: 03-Jul-2020 Issue date: 17-May-2018

SDS ICELAND

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## EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

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

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

## Authorizations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

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, as amended**

Not listed.

## Other EU regulations

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

Isopropyl alcohol (CAS 67-63-0)

## Other regulations

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

## Other information

This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830. Classification according to Regulation (EC) No 1272/2008 as amended.

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

## National regulations

Not available.

## 15.2. Chemical safety assessment

See attached SUMI or GEIS document, if applicable.

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## SECTION 16: Other information

### References

Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency (REACH).

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

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

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapor.  
H302 Harmful if swallowed.

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H360 May damage fertility or the unborn child.  
H400 Very toxic to aquatic life.

**Revision information**

1. Product and Company Identification: Product and Company Identification  
SECTION 2: Hazards identification: Classification according to Regulation (EC) No 1272/2008  
SECTION 3: Composition/information on ingredients: Composition comments  
SECTION 11: Toxicological information: Reproductivity

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

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**Explanation of abbreviations**

|               |   |
|---------------|---|
| <b>ACGIH</b>  | American Conference of Governmental Industrial Hygienists           |
| <b>CAS</b>    | Chemical Abstracts Service  |
| <b>CERCLA</b> | Comprehensive Environmental Response Compensation and Liability Act |
| <b>CFR</b>    | Code of Federal Regulations   |
| <b>COC</b>    | Cleveland Open Cup  |
| <b>DOT</b>    | Department of Transportation  |
| <b>EPCRA</b>  | Emergency Planning and Community Right-to-Know Act (aka SARA)       |
| <b>IARC</b>   | International Agency for Research on Cancer                         |
| <b>NIOSH</b>  | National Institute for Occupational Safety and Health               |
| <b>NTP</b>    | National Toxicology Program   |
| <b>OSHA</b>   | Occupational Safety and Health Administration                       |
| <b>PEL</b>    | Permissible Exposure Limit  |
| <b>RCRA</b>   | Resource Conservation and Recovery Act                              |
| <b>REC</b>    | Recommended   |
| <b>REL</b>    | Recommended Exposure Limit  |
| <b>SARA</b>   | Superfund Amendments and Reauthorization Act of 1986                |
| <b>STEL</b>   | Short-Term Exposure Limit   |
| <b>TCLP</b>   | Toxicity Characteristics Leaching Procedure                         |
| <b>TLV</b>    | Threshold Limit Value   |
| <b>TSCA</b>   | Toxic Substances Control Act  |
| <b>VOC</b>    | Volatile Organic Compounds  |



# Safe Use of Mixture Information (SUMI)

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## Water Based Ink: WB01 \*English\*

### Disclaimer

*This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.*

*The REACH registration number(s), where applicable, completes an extended product SDS.*

### Operational conditions

|                              |   |
|------------------------------|---|
| <b>Maximum duration</b>      | Up to 8 hours per day   |
| <b>Frequency of exposure</b> | < 240 days per year   |
| <b>Process conditions</b>    | Covers use at ambient temperatures.<br>Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace.<br>Avoid direct contact.<br>Regular cleaning of equipment and work area.<br>Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions followed. |

### Risk management measures

|  |  |
|--|--|
| <b>Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation</b> | <p>Wear safety glasses with side shields (or goggles), if splashing is possible.<br/>Wear appropriate chemical resistant gloves: see section 8 of the SDS.<br/>Wear appropriate chemical resistant clothing.<br/>In case of inadequate ventilation wear respiratory protection.<br/>Eye wash fountain and emergency showers are recommended.<br/>Avoid breathing mist/vapours.<br/>Avoid contact with skin, eyes and clothing.<br/>Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.</p> |
|--|--|



### Good practice advice

Use personal protective equipment as required.  
Wash hands before breaks and after work.  
Keep good industrial hygiene and safety practice.  
Use only with adequate ventilation.  
Do no eat, drink or smoke when using this product.  
Wash contaminated clothing before reuse.  
Store at room temperature.



### Environmental measures

Do not allow this material to drain into sewers/water supplies.  
Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.  
Ensure collection and disposal with appropriately licenced waste contractor.

### Use descriptors

- IS-Use at industrial sites
- PW-Widespread use by professional workers
- SU7-Printing and reproduction media
- PC18-Inks and Toners
- PROC1-Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
- PROC2-Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
- PROC3- Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
- PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities
- ERC5-Use at industrial site leading to inclusion into/onto article
- ERC8c-Widespread use leading to inclusion into/onto article (indoor)

### Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture is provided.  
Most of the water based inks are "not classified".  
The classification of the mixture is based on the individuel ingredients and their concentration within the mixture.  
All ingredients contributing to the classification are stated in Section 3 of the SDS.  
Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.  
The product may contain sensitizing ingredients that may cause allergic reaction to certain people.  
Section 2 of the SDS states these ingredients where applicable.