# 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** 4S6W5Series

**Registration number** -

**Synonyms** None.

**Issue date** 30-Sep-2023

**Version number** 01

**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**

HP Inc UK Ltd, Regulatory Enquiries, Earley West
300 Thames Valley Park Drive, Reading, RG6 1PT

**Telephone** +44 20 7660 0596 (Consumer)
+44 20 7660 0403 (Commercial)

**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:** sustainability@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.

**2.2. 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** None.

**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.

Endocrine disrupting properties (Toxicity/Ecotoxicity): This mixture does not contain known components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels above possible trace contaminate levels.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

The components are not hazardous or are below required disclosure limits.

**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**

Remove to fresh air. If symptoms persist, get medical attention.

**Skin contact**

Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

**Eye contact**

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

**Ingestion**

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

**4.2. Most important symptoms and effects, both acute and delayed**

Not available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Not available.

## SECTION 5: Firefighting measures

**General fire hazards**

Not available.

**5.1. Extinguishing media**

**Suitable extinguishing media**

For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.
For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

**Unsuitable extinguishing media**

None known.

**5.2. Special hazards arising from the substance or mixture**

Not available.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters**

Not available.

**Special fire fighting procedures**

Not available.

**Specific methods**

None established.

## 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 responders**

Not available.

**6.2. Environmental precautions**

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

| | |
|---|---|
| **6.3. Methods and material for containment and cleaning up** | Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. |
| **6.4. Reference to other sections** | Not available. |

## SECTION 7: Handling and storage

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

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

| | |
|---|---|
| **Occupational exposure limits** | No exposure limits noted for ingredient(s). |
| **Biological limit values** | No biological exposure limits noted for the ingredient(s). |
| **Recommended monitoring procedures** | Not available. |
| **Derived no effect levels (DNELs)** | Not available. |
| **Predicted no effect concentrations (PNECs)** | Not available. |
| **Exposure guidelines** | Exposure limits have not been established for this product. |

**8.2. Exposure controls**

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

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

| | |
|---|---|
| **General information** | Use personal protective equipment to minimize exposure to skin and eye. |
| **Eye/face protection** | Not available. |
| **Skin protection** | |
| **- Hand protection** | Not applicable. |
| **- Other** | Not available. |
| **Respiratory protection** | No personal respiratory protective equipment required under normal conditions of use. |
| **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. |
| **Form** | Not available. |
| **Color** | Black. |
| **Odor** | Not available. |
| **Odor threshold** | Not available. |
| **pH** | 7.5 - 9 |
| **Melting point/freezing point** | Not available. |
| **Initial boiling point and boiling range** | Not available. |
| **Flash point** | >230.0 °F (>110.0 °C) |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not available. |

**Upper/lower flammability or explosive limits**

| | |
|---|---|
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |

| | |
|---|---|
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Solubility(ies)** | |
| **Solubility (water)** | Not available. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Explosive properties** | Not available. |
| **Oxidizing properties** | Not determined |
| **9.2. Other information** | |
| **Density** | 1.05 g/ml |
| **Flash point class** | Combustible IIIB |
| **Kinematic viscosity** | <3 mm²/s at 25°C (calculated). |
| **VOC** | 209 g/L |
| **9.2. Other information** | |
| **9.2.2. Other safety characteristics** | No relevant additional information available. |

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

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

## SECTION 12: Ecological information

| | |
|---|---|
| **12.1. Toxicity** | No toxicity data noted for the ingredient(s). |
| **Aquatic toxicity** | This product has not been tested for ecological effects. |
| **12.2. Persistence and degradability** | Not available. |
| **12.3. Bioaccumulative potential** | Not available. |
| **Partition coefficient n-octanol/water (log Kow)** | Not available. |
| **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 methods/information** | 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 http://www.hp.com/recycle. |

## SECTION 14: Transport information

**ADR**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **Hazard No. (ADR)** | Not assigned. |
| **Tunnel restriction code** | Not assigned. |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | No |
| **14.6. Special precautions for user** | Not assigned. |

**IATA**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |

| | |
|---|---|
| **Subsidiary hazard** | - |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | No |
| **14.6. Special precautions for user** | Not assigned. |

**IMDG**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | |
| **Marine pollutant** | No |
| **EmS** | Not assigned. |
| **14.6. Special precautions for user** | Not assigned. |
| **14.7. Maritime transport in bulk according to IMO instruments** | Not available. |
| **Further information** | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br><br>Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable. |

## SECTION 15: Regulatory information

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

**Retained direct EU regulations**

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

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), 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 - Conditions of restriction given for the associated entry number should be considered**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended**

Not listed.

**Other regulations**

HP complies with chemical regulatory requirements in chemical substance notification laws, where applicable. All chemical substances are notified or exempt from notification or listed in the inventory as existing substances in the following countries: US (TSCA), Canada (DSL/NDSL), Australia (AIIC), Japan (ISHL, ENCS), Philippines (PICCS), New Zealand (NZIoC), Russia and China (IECSC). For guidance on importation and/or additional requirements for registration schemes such as EAEU, EU, South Korea, Turkey, UK, India and Taiwan, please contact the Sustainability and Compliance Center (sustainability@hp.com).

Not available.

| | |
|---|---|
| **15.2. Chemical safety assessment** | See attached SUMI or GEIS document, if applicable. |
| **Other information** | 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). |

## 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).<br><br>Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, and amendments (CLP).<br><br>The information in this document is based on the present state of our knowledge, including but not limited to the data present in the registrations of the ingredients, it does not purport to be all-inclusive and shall be used only as a guide. |
| **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 statements, which are not written out in full under sections 2 to 15** | None. |
| **Revision information** | 1. Product and Company Identification: Alternate Trade Names<br>3. Composition / Information on Ingredients: Disclosure Overrides<br>SECTION 15: Regulatory information: International regulations |
| **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.<br><br>This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs. |

**Explanation of abbreviations**

| | |
|---|---|
| **ACGIH** | American Conference of Governmental Industrial Hygienists |
| **Acute Tox.** | Acute toxicity |
| **Aquatic Acute** | Short-term (acute) aquatic hazard |
| **Aquatic Chronic** | Long-term (chronic) aquatic hazard |
| **Asp. Tox.** | Aspiration hazard |
| **Carc.** | Carcinogenicity |
| **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) |
| **Eye Dam.** | Serious eye damage |
| **Eye Irrit.** | Eye Irritation |
| **Flam. Liq.** | Flammable liquids |
| **Flam. Sol.** | Flammable solids |
| **Lact.** | Effects on or via lactation |
| **Muta.** | Germ cell mutagenicity |
| **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 |
| **Ox. Liq.** | Oxidising liquids |
| **Ozone** | Hazardous to the ozone layer |
| **PEL** | Permissible Exposure Limit |
| **Press. Gas** | Gases under pressure |
| **RCRA** | Resource Conservation and Recovery Act |
| **REC** | Recommended |
| **REL** | Recommended Exposure Limit |
| **Repr.** | Reproductive toxicity |
| **Resp. Sens.** | Respiratory sensitization |
| **SARA** | Superfund Amendments and Reauthorization Act of 1986 |
| **Skin Corr.** | Skin corrosion |
| **Skin Irrit.** | Skin irritation |
| **Skin Sens.** | Skin sensitization |
| **STEL** | Short-Term Exposure Limit |
| **STOT RE** | Specific target organ toxicity - repeated exposure |
| **STOT SE** | Specific target organ toxicity - single exposure |
| **TCLP** | Toxicity Characteristics Leaching Procedure |
| **TLV** | Threshold Limit Value |
| **TSCA** | Toxic Substances Control Act |

# Safe Use of Mixtures Information (SUMI)

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# Water Based Ink: WB02 *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 Safety Data Sheet (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 numbers, where applicable, complete an extended product SDS.*

**Operational conditions**

| | |
|---|---|
| **Maximum duration** | Up to 8 hours per day. |
| **Frequency of exposure** | < 240 days per year. |
| **Physical state** | Liquid. |
| **Process conditions** | Covers use at ambient temperatures.<br>Provide a good standard of controlled ventilation (10 to 15 air changes per hour).<br>Avoid direct contact.<br>Regular cleaning of equipment and work area.<br>Supervision in place to check that Risk Management Measures (RMM's) in place are being correctly used and Operational Conditions (OC's) followed. |

**Risk management measures**

| | |
|---|---|
| **Conditions and measures related to Personal Protection Equipment (PPE), hygiene and health evaluation** | Wear safety glasses with side shields (or goggles), if splashing is possible.<br>Wear appropriate chemical resistent gloves: see section 8 of the SDS.<br>Wear appropriate chemical resistent clothing.<br>In case of inadequate ventilation wear respiratory protection.<br>Eye wash station 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. |



**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.
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.
PROC28 - Manual maintenance (cleaning and repair) of machinery.
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".
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.

# 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** 4S6W2Series

**Registration number** -

**Synonyms** None.

**Issue date** 30-Sep-2023

**Version number** 03

**Revision date** 15-Aug-2026

**Supersedes date** 29-Apr-2026

**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**

HP Inc UK Ltd, Regulatory Enquiries, Earley West
300 Thames Valley Park Drive, Reading, RG6 1PT

**Telephone** +44 20 7660 0596 (Consumer)
+44 20 7660 0403 (Commercial)

**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:** sustainability@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.

**Environmental hazards**

| | | |
|---|---|---|
| Very persistent and very mobile | Classified | EUH451 - Can cause very long-lasting and diffuse contamination of water resources. |

**2.2. Label elements**

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

**Contains:** 5,5-Dimethylimidazolidine-2,4-dione, reaction products with oxirane, 2,4,7,9-tetramethyl-5-decyne-4,7-diol

**Hazard pictograms** None.

**Signal word** Danger

**Hazard statements**

EUH451 Can cause very long-lasting and diffuse contamination of water resources.

**Precautionary statements**

**Prevention**

P201 Obtain special instructions before use.

P273 Avoid release to the environment.

**Response**

P391 Collect spillage.

**Storage** Not available.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** Contains Benzisothiazolinone and 2,4,7,9-tetramethyl-5-decyne-4,7-diol. May produce an allergic reaction.
Incorporates biocides: benzisothiazolinone.

**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. None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

Endocrine disrupting properties (Toxicity/Ecotoxicity): This mixture does not contain known components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels above possible trace contaminate levels.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**General information**

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|---|---|---|---|---|---|
| 5,5-Dimethylimidazolidine-2,4-dione, reaction products with oxirane | <5 | 26850-24-8<br>701-388-0 | - | - | |
| **Classification:** vPvM;EUH451 | | | | | |
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol | <1 | 126-86-3<br>204-809-1 | 01-2119954390-39-XXXX | - | |
| **Classification:** Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Chronic 3;H412, vPvM;EUH451 | | | | | |
| 1,2-Benzisothiazolin-3-one (Benzisothiazolinone) | <0.036 | 2634-33-5<br>220-120-9 | 01-2120761540-60-XXXX | 613-088-00-6 | |
| **Classification:** Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Acute 1;H400(M=1), Aquatic Chronic 2;H411(M=1) | | | | | |
| **Specific Concentration Limits:** Skin Sens. 1A;H317: C ≥ 0.036 % | | | | | |
| Other components below reportable levels | <100 | | | | |

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

## 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. Get medical attention if irritation develops or persists.

**Eye contact** Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

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

**4.2. Most important symptoms and effects, both acute and delayed** Not available.

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

## SECTION 5: Firefighting measures

**General fire hazards** Not available.

**5.1. Extinguishing media**

**Suitable extinguishing media** Dry chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media** None known.

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

**5.3. Advice for firefighters**

**Special protective equipment for firefighters** Not available.

**Special fire fighting procedures** Not available.

**Specific methods** None established.

## 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 responders** Not available.

**6.2. Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and material for containment and cleaning up** Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

**6.4. Reference to other sections** Not available.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Avoid contact with skin, eyes and clothing.

**7.2. Conditions for safe storage, including any incompatibilities** Keep out of the reach of children. Keep away from excessive heat or cold.

**7.3. Specific end use(s)** Not available.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits** No exposure limits noted for ingredient(s).

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

**Recommended monitoring procedures** Not available.

**Derived no effect levels (DNELs)**

**General population**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | | | |
| Long-term, Systemic, Dermal | 0.25 mg/kg | 600 | |
| Long-term, Systemic, Inhalation | 0.43 mg/m3 | 150 | |
| Long-term, Systemic, Oral | 0.25 mg/kg | 600 | |
| Short-term, Systemic, Dermal | 0.75 mg/kg | 0.33 | |
| Short-term, Systemic, Inhalation | 1.29 mg/m3 | 0.33 | |
| Short-term, Systemic, Oral | 0.75 mg/kg | 0.33 | |

**Workers**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | | | |
| Long-term, Systemic, Dermal | 0.5 mg/kg | 300 | |
| Long-term, Systemic, Inhalation | 1.76 mg/m3 | 75 | |
| Short-term, Systemic, Dermal | 1.5 mg/kg | 0.33 | |
| Short-term, Systemic, Inhalation | 5.28 mg/m3 | 0.33 | |

**Predicted no effect concentrations (PNECs)**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | | | |
| Freshwater | 0.04 mg/l | | |
| Intermittent releases | 0.4 mg/l | | |
| Marine water | 0.004 mg/l | | |
| Sediment (freshwater) | 0.32 mg/kg | | |
| Sediment (marine water) | 0.032 mg/kg | | |
| Sewage Treatment Plant | 7 mg/l | | |
| Soil | 0.028 mg/kg | | |

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

**8.2. Exposure controls**

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

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

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

**Eye/face protection** Not available.

**Skin protection**

**- Hand protection** Not available.

**- Other** Not available.

**Respiratory protection** Not available.

**Thermal hazards** Not available.

**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.

**Form** Not available.

**Color** Cyan

**Odor** Not available.

**Odor threshold** Not available.

**pH** 9 - 9.5

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** >230.0 °F (>110.0 °C)

**Evaporation rate** Not available.

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

**Upper/lower flammability or explosive limits**

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

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

**Vapor pressure** Not available.

**Vapor density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Explosive properties** Not available.

| | |
|---|---|
| **Oxidizing properties** | Not determined |

**9.2. Other information**

| | |
|---|---|
| **Density** | 1.05 g/ml |
| **Kinematic viscosity** | <3 mm²/s at 25°C (calculated). |
| **VOC** | 186 g/l |

**9.2. Other information**

| | |
|---|---|
| **9.2.2. Other safety characteristics** | No relevant additional information available. |

## 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. |

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| **Skin contact** | Contact with skin may result in mild irritation. |
| **Eye contact** | Contact with eyes may result in mild irritation. |
| **Ingestion** | Health injuries are not known or expected under normal use. |
| **Symptoms** | 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. |
| **Reproductive toxicity** | Based on available data, the classification criteria are not met. |
| **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<br>Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

## SECTION 12: Ecological information

| | |
|---|---|
| **12.1. Toxicity** | No toxicity data noted for the ingredient(s). |
| **Aquatic toxicity** | No information available. |
| **12.2. Persistence and degradability** | Not available. |
| **12.3. Bioaccumulative potential** | Not available. |

| | |
|---|---|
| **Partition coefficient n-octanol/water (log Kow)** | Not available. |
| **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** | Product contains substances which are very persistent and very mobile (vPvM). |

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

| | |
|---|---|
| **Residual waste** | Not available. |
| **Contaminated packaging** | Not available. |
| **EU waste code** | Not available. |
| **Disposal methods/information** | 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 http://www.hp.com/recycle. |

## SECTION 14: Transport information

**ADR**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **Hazard No. (ADR)** | Not assigned. |
| **Tunnel restriction code** | Not assigned. |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | No |
| **14.6. Special precautions for user** | Not assigned. |

**IATA**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | No |
| **14.6. Special precautions for user** | Not assigned. |

**IMDG**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | |
| **Marine pollutant** | No |
| **EmS** | Not assigned. |
| **14.6. Special precautions for user** | Not assigned. |

| | |
|---|---|
| **14.7. Maritime transport in bulk according to IMO instruments** | Not available. |
| **Further information** | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br><br>Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable. |

## SECTION 15: Regulatory information

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

**Retained direct EU regulations**

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

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), 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 - Conditions of restriction given for the associated entry number should be considered**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended**

Not listed.

**Other regulations**

HP complies with chemical regulatory requirements in chemical substance notification laws, where applicable. All chemical substances are notified or exempt from notification or listed in the inventory as existing substances in the following countries: US (TSCA), Canada (DSL/NDSL), Australia (AIIC), Japan (ISHL, ENCS), Philippines (PICCS), New Zealand (NZIoC), Russia and China (IECSC). For guidance on importation and/or additional requirements for registration schemes such as EAEU, EU, South Korea, Turkey, UK, India and Taiwan, please contact the Sustainability and Compliance Center (sustainability@hp.com).

Not available.

| | |
|---|---|
| **15.2. Chemical safety assessment** | See attached SUMI or GEIS document, if applicable. |
| **Other information** | 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). |

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

The information in this document is based on the present state of our knowledge, including but not limited to the data present in the registrations of the ingredients, it does not purport to be all-inclusive and shall be used only as a guide.

**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 statements, which are not written out in full under sections 2 to 15**

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH451 Can cause very long-lasting and diffuse contamination of water resources.

**Revision information**

SECTION 2: Hazards identification: Supplemental label information
3. Composition / Information on Ingredients: Disclosure Overrides

**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.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

**Explanation of abbreviations**

| | |
|---|---|
| **ACGIH** | American Conference of Governmental Industrial Hygienists |
| **Acute Tox.** | Acute toxicity |
| **Aquatic Acute** | Short-term (acute) aquatic hazard |
| **Aquatic Chronic** | Long-term (chronic) aquatic hazard |
| **Asp. Tox.** | Aspiration hazard |
| **Carc.** | Carcinogenicity |
| **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) |
| **Eye Dam.** | Serious eye damage |
| **Eye Irrit.** | Eye Irritation |
| **Flam. Liq.** | Flammable liquids |
| **Flam. Sol.** | Flammable solids |
| **Lact.** | Effects on or via lactation |
| **Muta.** | Germ cell mutagenicity |
| **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 |
| **Ox. Liq.** | Oxidising liquids |
| **Ozone** | Hazardous to the ozone layer |
| **PEL** | Permissible Exposure Limit |
| **Press. Gas** | Gases under pressure |
| **RCRA** | Resource Conservation and Recovery Act |
| **REC** | Recommended |
| **REL** | Recommended Exposure Limit |
| **Repr.** | Reproductive toxicity |
| **Resp. Sens.** | Respiratory sensitization |
| **SARA** | Superfund Amendments and Reauthorization Act of 1986 |
| **Skin Corr.** | Skin corrosion |
| **Skin Irrit.** | Skin irritation |
| **Skin Sens.** | Skin sensitization |
| **STEL** | Short-Term Exposure Limit |
| **STOT RE** | Specific target organ toxicity - repeated exposure |
| **STOT SE** | Specific target organ toxicity - single exposure |
| **TCLP** | Toxicity Characteristics Leaching Procedure |
| **TLV** | Threshold Limit Value |
| **TSCA** | Toxic Substances Control Act |

# Safe Use of Mixtures Information (SUMI)

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# Water Based Ink: WB02 *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 Safety Data Sheet (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 numbers, where applicable, complete an extended product SDS.*

**Operational conditions**

| | |
|---|---|
| **Maximum duration** | Up to 8 hours per day. |
| **Frequency of exposure** | < 240 days per year. |
| **Physical state** | Liquid. |
| **Process conditions** | Covers use at ambient temperatures.<br>Provide a good standard of controlled ventilation (10 to 15 air changes per hour).<br>Avoid direct contact.<br>Regular cleaning of equipment and work area.<br>Supervision in place to check that Risk Management Measures (RMM's) in place are being correctly used and Operational Conditions (OC's) followed. |

**Risk management measures**

| | |
|---|---|
| **Conditions and measures related to Personal Protection Equipment (PPE), hygiene and health evaluation** | Wear safety glasses with side shields (or goggles), if splashing is possible.<br>Wear appropriate chemical resistent gloves: see section 8 of the SDS.<br>Wear appropriate chemical resistent clothing.<br>In case of inadequate ventilation wear respiratory protection.<br>Eye wash station 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. |



**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.
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.
PROC28 - Manual maintenance (cleaning and repair) of machinery.
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".
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.

# 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** 4S6W3Series

**Registration number** -

**Synonyms** None.

**Issue date** 01-Oct-2023

**Version number** 02

**Revision date** 05-Sep-2026

**Supersedes date** 29-Apr-2026

**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**

HP Inc UK Ltd, Regulatory Enquiries, Earley West
300 Thames Valley Park Drive, Reading, RG6 1PT

**Telephone** +44 20 7660 0596 (Consumer)
+44 20 7660 0403 (Commercial)

**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:** sustainability@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.

**Environmental hazards**

| | | |
|---|---|---|
| Very persistent and very mobile | Classified | EUH451 - Can cause very long-lasting and diffuse contamination of water resources. |

**2.2. Label elements**

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

**Contains:** 5,5-Dimethylimidazolidine-2,4-dione, reaction products with oxirane

**Hazard pictograms** None.

**Signal word** Danger

**Hazard statements**

EUH451 Can cause very long-lasting and diffuse contamination of water resources.

**Precautionary statements**

**Prevention**

P201 Obtain special instructions before use.
P273 Avoid release to the environment.

**Response**

P391 Collect spillage.

**Storage** Not available.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** Contains Benzisothiazolinone and 2,4,7,9-tetramethyl-5-decyne-4,7-diol. May produce an allergic reaction.
Incorporates biocides: benzisothiazolinone.

**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. None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

Endocrine disrupting properties (Toxicity/Ecotoxicity): This mixture does not contain known components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels above possible trace contaminate levels.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**General information**

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|---|---|---|---|---|---|
| 5,5-Dimethylimidazolidine-2,4-dione, reaction products with oxirane | <5 | 26850-24-8<br>701-388-0 | - | - | |
| **Classification:** vPvM;EUH451 | | | | | |
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol | <1 | 126-86-3<br>204-809-1 | 01-2119954390-39-XXXX | - | |
| **Classification:** Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Chronic 3;H412, vPvM;EUH451 | | | | | |
| 1,2-Benzisothiazolin-3-one (Benzisothiazolinone) | <0.036 | 2634-33-5<br>220-120-9 | 01-2120761540-60-XXXX | 613-088-00-6 | |
| **Classification:** Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Acute 1;H400(M=1), Aquatic Chronic 2;H411(M=1) | | | | | |
| **Specific Concentration Limits:** Skin Sens. 1A;H317: C ≥ 0.036 % | | | | | |
| Other components below reportable levels | <100 | | | | |

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

## 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. Get medical attention if irritation develops or persists.

**Eye contact** Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

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

**4.2. Most important symptoms and effects, both acute and delayed** Not available.

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

## SECTION 5: Firefighting measures

**General fire hazards** Not available.

**5.1. Extinguishing media**

**Suitable extinguishing media** Dry chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media** None known.

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

**5.3. Advice for firefighters**

**Special protective equipment for firefighters** Not available.

**Special fire fighting procedures** Not available.

**Specific methods** None established.

## 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 responders** Not available.

**6.2. Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and material for containment and cleaning up** Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

**6.4. Reference to other sections** Not available.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Avoid contact with skin, eyes and clothing.

**7.2. Conditions for safe storage, including any incompatibilities** Keep out of the reach of children. Keep away from excessive heat or cold.

**7.3. Specific end use(s)** Not available.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits** No exposure limits noted for ingredient(s).

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

**Recommended monitoring procedures** Not available.

**Derived no effect levels (DNELs)**

**General population**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | | | |
| Long-term, Systemic, Dermal | 0.25 mg/kg | 600 | |
| Long-term, Systemic, Inhalation | 0.43 mg/m3 | 150 | |
| Long-term, Systemic, Oral | 0.25 mg/kg | 600 | |
| Short-term, Systemic, Dermal | 0.75 mg/kg | 0.33 | |
| Short-term, Systemic, Inhalation | 1.29 mg/m3 | 0.33 | |
| Short-term, Systemic, Oral | 0.75 mg/kg | 0.33 | |

**Workers**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | | | |
| Long-term, Systemic, Dermal | 0.5 mg/kg | 300 | |
| Long-term, Systemic, Inhalation | 1.76 mg/m3 | 75 | |
| Short-term, Systemic, Dermal | 1.5 mg/kg | 0.33 | |
| Short-term, Systemic, Inhalation | 5.28 mg/m3 | 0.33 | |

**Predicted no effect concentrations (PNECs)**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | | | |
| Freshwater | 0.04 mg/l | | |
| Intermittent releases | 0.4 mg/l | | |
| Marine water | 0.004 mg/l | | |
| Sediment (freshwater) | 0.32 mg/kg | | |
| Sediment (marine water) | 0.032 mg/kg | | |
| Sewage Treatment Plant | 7 mg/l | | |
| Soil | 0.028 mg/kg | | |

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

**8.2. Exposure controls**

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

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

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

**Eye/face protection** Not available.

**Skin protection**

**- Hand protection** Not available.

**- Other** Not available.

**Respiratory protection** Not available.

**Thermal hazards** Not available.

**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.

**Form** Not available.

**Color** Magenta

**Odor** Not available.

**Odor threshold** Not available.

**pH** 9 - 9.5

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** >230.0 °F (>110.0 °C)

**Evaporation rate** Not available.

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

**Upper/lower flammability or explosive limits**

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

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

**Vapor pressure** Not available.

**Vapor density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Explosive properties** Not available.

| | |
|---|---|
| **Oxidizing properties** | Not determined |

**9.2. Other information**

| | |
|---|---|
| **Density** | 1.04 g/ml |
| **Kinematic viscosity** | <3 mm²/s at 25°C (calculated). |
| **VOC** | 204 g/l estimated |

**9.2. Other information**

| | |
|---|---|
| **9.2.2. Other safety characteristics** | No relevant additional information available. |

## 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. |

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| **Skin contact** | Contact with skin may result in mild irritation. |
| **Eye contact** | Contact with eyes may result in mild irritation. |
| **Ingestion** | Health injuries are not known or expected under normal use. |
| **Symptoms** | 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. |
| **Reproductive toxicity** | Based on available data, the classification criteria are not met. |
| **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<br>Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

## SECTION 12: Ecological information

| | |
|---|---|
| **12.1. Toxicity** | No toxicity data noted for the ingredient(s). |
| **Aquatic toxicity** | No information available. |
| **12.2. Persistence and degradability** | Not available. |
| **12.3. Bioaccumulative potential** | Not available. |

| | |
|---|---|
| **Partition coefficient n-octanol/water (log Kow)** | Not available. |
| **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** | Product contains substances which are very persistent and very mobile (vPvM). |

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

| | |
|---|---|
| **Residual waste** | Not available. |
| **Contaminated packaging** | Not available. |
| **EU waste code** | Not available. |
| **Disposal methods/information** | 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 http://www.hp.com/recycle. |

## SECTION 14: Transport information

**ADR**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **Hazard No. (ADR)** | Not assigned. |
| **Tunnel restriction code** | Not assigned. |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | No |
| **14.6. Special precautions for user** | Not assigned. |

**IATA**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | No |
| **14.6. Special precautions for user** | Not assigned. |

**IMDG**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | |
| **Marine pollutant** | No |
| **EmS** | Not assigned. |
| **14.6. Special precautions for user** | Not assigned. |

| | |
|---|---|
| **14.7. Maritime transport in bulk according to IMO instruments** | Not available. |
| **Further information** | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br><br>Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable. |

## SECTION 15: Regulatory information

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

**Retained direct EU regulations**

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

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), 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 - Conditions of restriction given for the associated entry number should be considered**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended**

Not listed.

**Other regulations**

HP complies with chemical regulatory requirements in chemical substance notification laws, where applicable. All chemical substances are notified or exempt from notification or listed in the inventory as existing substances in the following countries: US (TSCA), Canada (DSL/NDSL), Australia (AIIC), Japan (ISHL, ENCS), Philippines (PICCS), New Zealand (NZIoC), Russia and China (IECSC). For guidance on importation and/or additional requirements for registration schemes such as EAEU, EU, South Korea, Turkey, UK, India and Taiwan, please contact the Sustainability and Compliance Center (sustainability@hp.com).

Not available.

| | |
|---|---|
| **15.2. Chemical safety assessment** | See attached SUMI or GEIS document, if applicable. |
| **Other information** | 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). |

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

The information in this document is based on the present state of our knowledge, including but not limited to the data present in the registrations of the ingredients, it does not purport to be all-inclusive and shall be used only as a guide.

**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 statements, which are not written out in full under sections 2 to 15**

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH451 Can cause very long-lasting and diffuse contamination of water resources.

**Revision information**

1. Product and Company Identification: Alternate Trade Names

**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.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

**Explanation of abbreviations**

| | |
|---|---|
| **ACGIH** | American Conference of Governmental Industrial Hygienists |
| **Acute Tox.** | Acute toxicity |
| **Aquatic Acute** | Short-term (acute) aquatic hazard |
| **Aquatic Chronic** | Long-term (chronic) aquatic hazard |
| **Asp. Tox.** | Aspiration hazard |
| **Carc.** | Carcinogenicity |
| **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) |
| **Eye Dam.** | Serious eye damage |
| **Eye Irrit.** | Eye Irritation |
| **Flam. Liq.** | Flammable liquids |
| **Flam. Sol.** | Flammable solids |
| **Lact.** | Effects on or via lactation |
| **Muta.** | Germ cell mutagenicity |
| **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 |
| **Ox. Liq.** | Oxidising liquids |
| **Ozone** | Hazardous to the ozone layer |
| **PEL** | Permissible Exposure Limit |
| **Press. Gas** | Gases under pressure |
| **RCRA** | Resource Conservation and Recovery Act |
| **REC** | Recommended |
| **REL** | Recommended Exposure Limit |
| **Repr.** | Reproductive toxicity |
| **Resp. Sens.** | Respiratory sensitization |
| **SARA** | Superfund Amendments and Reauthorization Act of 1986 |
| **Skin Corr.** | Skin corrosion |
| **Skin Irrit.** | Skin irritation |
| **Skin Sens.** | Skin sensitization |
| **STEL** | Short-Term Exposure Limit |
| **STOT RE** | Specific target organ toxicity - repeated exposure |
| **STOT SE** | Specific target organ toxicity - single exposure |
| **TCLP** | Toxicity Characteristics Leaching Procedure |
| **TLV** | Threshold Limit Value |
| **TSCA** | Toxic Substances Control Act |

# Safe Use of Mixtures Information (SUMI)

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# Water Based Ink: WB02 *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 Safety Data Sheet (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 numbers, where applicable, complete an extended product SDS.*

**Operational conditions**

| | |
|---|---|
| **Maximum duration** | Up to 8 hours per day. |
| **Frequency of exposure** | < 240 days per year. |
| **Physical state** | Liquid. |
| **Process conditions** | Covers use at ambient temperatures.<br>Provide a good standard of controlled ventilation (10 to 15 air changes per hour).<br>Avoid direct contact.<br>Regular cleaning of equipment and work area.<br>Supervision in place to check that Risk Management Measures (RMM's) in place are being correctly used and Operational Conditions (OC's) followed. |

**Risk management measures**

| | |
|---|---|
| **Conditions and measures related to Personal Protection Equipment (PPE), hygiene and health evaluation** | Wear safety glasses with side shields (or goggles), if splashing is possible.<br>Wear appropriate chemical resistent gloves: see section 8 of the SDS.<br>Wear appropriate chemical resistent clothing.<br>In case of inadequate ventilation wear respiratory protection.<br>Eye wash station 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. |



**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.
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.
PROC28 - Manual maintenance (cleaning and repair) of machinery.
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".
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.

# 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** 4S6W4Series

**Registration number** -

**Synonyms** None.

**Issue date** 30-Sep-2023

**Version number** 03

**Revision date** 12-May-2026

**Supersedes date** 27-Feb-2026

**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**

HP Inc UK Ltd, Regulatory Enquiries, Earley West
300 Thames Valley Park Drive, Reading, RG6 1PT

**Telephone** +44 20 7660 0596 (Consumer)
+44 20 7660 0403 (Commercial)

**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:** sustainability@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.

**Environmental hazards**

| | | |
|---|---|---|
| Very persistent and very mobile | Classified | EUH451 - Can cause very long-lasting and diffuse contamination of water resources. |

**2.2. Label elements**

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

**Contains:** 5,5-Dimethylimidazolidine-2,4-dione, reaction products with oxirane, 2,4,7,9-tetramethyl-5-decyne-4,7-diol

**Hazard pictograms** None.

**Signal word** Danger

**Hazard statements**

EUH451 Can cause very long-lasting and diffuse contamination of water resources.

**Precautionary statements**

**Prevention**

P201 Obtain special instructions before use.

| | |
|---|---|
| P273 | Avoid release to the environment. |
| **Response** | |
| P391 | Collect spillage. |
| **Storage** | Not available. |
| **Disposal** | |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

**Supplemental label information** Contains Benzisothiazolinone and 2,4,7,9-tetramethyl-5-decyne-4,7-diol. May produce an allergic reaction.
Incorporates biocides: benzisothiazolinone.

**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. None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

Endocrine disrupting properties (Toxicity/Ecotoxicity): This mixture does not contain known components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels above possible trace contaminate levels.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**General information**

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|---|---|---|---|---|---|
| 5,5-Dimethylimidazolidine-2,4-dione, reaction products with oxirane | <5 | 26850-24-8<br>701-388-0 | - | - | |
| **Classification:** vPvM;EUH451 | | | | | |
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol | <1 | 126-86-3<br>204-809-1 | 01-2119954390-39-XXXX | - | |
| **Classification:** Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Chronic 3;H412, vPvM;EUH451 | | | | | |
| 1,2-Benzisothiazolin-3-one (Benzisothiazolinone) | <0.036 | 2634-33-5<br>220-120-9 | 01-2120761540-60-XXXX | 613-088-00-6 | |
| **Classification:** Acute Tox. 4;H302, Acute Tox. 2;H330, Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Acute 1;H400(M=1), Aquatic Chronic 2;H411(M=1) | | | | | |
| **Specific Concentration Limits:** Skin Sens. 1A;H317: C ≥ 0.036 % | | | | | |

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

## 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. Get medical attention if irritation develops or persists.

**Eye contact** Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

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

**4.2. Most important symptoms and effects, both acute and delayed** Not available.

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

## SECTION 5: Firefighting measures

**General fire hazards** Not available.

**5.1. Extinguishing media**

**Suitable extinguishing media** Dry chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media** None known.

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

**5.3. Advice for firefighters**

**Special protective equipment for firefighters** Not available.

**Special fire fighting procedures** Not available.

**Specific methods** None established.

## 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 responders** Not available.

**6.2. Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and material for containment and cleaning up** Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

**6.4. Reference to other sections** Not available.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Avoid contact with skin, eyes and clothing.

**7.2. Conditions for safe storage, including any incompatibilities** Keep out of the reach of children. Keep away from excessive heat or cold.

**7.3. Specific end use(s)** Not available.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits** No exposure limits noted for ingredient(s).

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

**Recommended monitoring procedures** Not available.

**Derived no effect levels (DNELs)**

**General population**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | | | |
| Long-term, Systemic, Dermal | 0.25 mg/kg | 600 | |
| Long-term, Systemic, Inhalation | 0.43 mg/m3 | 150 | |
| Long-term, Systemic, Oral | 0.25 mg/kg | 600 | |
| Short-term, Systemic, Dermal | 0.75 mg/kg | 0.33 | |
| Short-term, Systemic, Inhalation | 1.29 mg/m3 | 0.33 | |
| Short-term, Systemic, Oral | 0.75 mg/kg | 0.33 | |

**Workers**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | | | |
| Long-term, Systemic, Dermal | 0.5 mg/kg | 300 | |
| Long-term, Systemic, Inhalation | 1.76 mg/m3 | 75 | |
| Short-term, Systemic, Dermal | 1.5 mg/kg | 0.33 | |
| Short-term, Systemic, Inhalation | 5.28 mg/m3 | 0.33 | |

**Predicted no effect concentrations (PNECs)**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2,4,7,9-tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | | | |
| Freshwater | 0.04 mg/l | | |
| Intermittent releases | 0.4 mg/l | | |
| Marine water | 0.004 mg/l | | |
| Sediment (freshwater) | 0.32 mg/kg | | |
| Sediment (marine water) | 0.032 mg/kg | | |
| Sewage Treatment Plant | 7 mg/l | | |
| Soil | 0.028 mg/kg | | |

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

**8.2. Exposure controls**

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

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

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

**Eye/face protection** Not available.

**Skin protection**

**- Hand protection** Not available.

**- Other** Not available.

**Respiratory protection** Not available.

**Thermal hazards** Not available.

**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.

**Form** Not available.

**Color** Yellow

**Odor** Not available.

**Odor threshold** Not available.

**pH** 9 - 9.6

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** >230.0 °F (>110.0 °C)

**Evaporation rate** Not available.

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

**Upper/lower flammability or explosive limits**

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

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

**Vapor pressure** Not available.

**Vapor density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Explosive properties** Not available.

| | |
|---|---|
| **Oxidizing properties** | Not determined |

**9.2. Other information**

| | |
|---|---|
| **Density** | 1.05 g/ml |
| **Kinematic viscosity** | <3 mm²/s at 25°C (calculated). |
| **VOC** | 205 g/l |

**9.2. Other information**

| | |
|---|---|
| **9.2.2. Other safety characteristics** | No relevant additional information available. |

## 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. |

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| **Skin contact** | Contact with skin may result in mild irritation. |
| **Eye contact** | Contact with eyes may result in mild irritation. |
| **Ingestion** | Health injuries are not known or expected under normal use. |
| **Symptoms** | 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. |
| **Reproductive toxicity** | Based on available data, the classification criteria are not met. |
| **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<br>Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

## SECTION 12: Ecological information

| | |
|---|---|
| **12.1. Toxicity** | No toxicity data noted for the ingredient(s). |
| **Aquatic toxicity** | No information available. |
| **12.2. Persistence and degradability** | Not available. |
| **12.3. Bioaccumulative potential** | Not available. |

| | |
|---|---|
| **Partition coefficient n-octanol/water (log Kow)** | Not available. |
| **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** | Product contains substances which are very persistent and very mobile (vPvM). |

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

| | |
|---|---|
| **Residual waste** | Not available. |
| **Contaminated packaging** | Not available. |
| **EU waste code** | Not available. |
| **Disposal methods/information** | 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 http://www.hp.com/recycle. |

## SECTION 14: Transport information

**ADR**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **Hazard No. (ADR)** | Not assigned. |
| **Tunnel restriction code** | Not assigned. |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | No |
| **14.6. Special precautions for user** | Not assigned. |

**IATA**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | No |
| **14.6. Special precautions for user** | Not assigned. |

**IMDG**

| | |
|---|---|
| **14.1. UN number or ID number** | Not regulated as dangerous goods. |
| **14.2. UN proper shipping name** | Not Regulated |
| **14.3. Transport hazard class(es)** | |
| **Class** | Not assigned. |
| **Subsidiary hazard** | - |
| **14.4. Packing group** | - |
| **14.5. Environmental hazards** | |
| **Marine pollutant** | No |
| **EmS** | Not assigned. |
| **14.6. Special precautions for user** | Not assigned. |

| | |
|---|---|
| **14.7. Maritime transport in bulk according to IMO instruments** | Not available. |
| **Further information** | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br><br>Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable. |

## SECTION 15: Regulatory information

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

**Retained direct EU regulations**

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

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), 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 - Conditions of restriction given for the associated entry number should be considered**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended**

Not listed.

**Other regulations**

HP complies with chemical regulatory requirements in chemical substance notification laws, where applicable. All chemical substances are notified or exempt from notification or listed in the inventory as existing substances in the following countries: US (TSCA), Canada (DSL/NDSL), Australia (AIIC), Japan (ISHL, ENCS), Philippines (PICCS), New Zealand (NZIoC), Russia and China (IECSC). For guidance on importation and/or additional requirements for registration schemes such as EAEU, EU, South Korea, Turkey, UK, India and Taiwan, please contact the Sustainability and Compliance Center (sustainability@hp.com).

Not available.

| | |
|---|---|
| **15.2. Chemical safety assessment** | See attached SUMI or GEIS document, if applicable. |
| **Other information** | This Safety Data Sheet complies with the requirements of Regulation (EU) 2020/878. 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). |

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

The information in this document is based on the present state of our knowledge, including but not limited to the data present in the registrations of the ingredients, it does not purport to be all-inclusive and shall be used only as a guide.

**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 statements, which are not written out in full under sections 2 to 15**

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH451 Can cause very long-lasting and diffuse contamination of water resources.

**Revision information**

SECTION 2: Hazards identification: Disposal
SECTION 2: Hazards identification: Prevention
SECTION 2: Hazards identification: Response

**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.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

**Explanation of abbreviations**

| | |
|---|---|
| **ACGIH** | American Conference of Governmental Industrial Hygienists |
| **Acute Tox.** | Acute toxicity |
| **Aquatic Acute** | Short-term (acute) aquatic hazard |
| **Aquatic Chronic** | Long-term (chronic) aquatic hazard |
| **Asp. Tox.** | Aspiration hazard |
| **Carc.** | Carcinogenicity |
| **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) |
| **Eye Dam.** | Serious eye damage |
| **Eye Irrit.** | Eye Irritation |
| **Flam. Liq.** | Flammable liquids |
| **Flam. Sol.** | Flammable solids |
| **Lact.** | Effects on or via lactation |
| **Muta.** | Germ cell mutagenicity |
| **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 |
| **Ox. Liq.** | Oxidising liquids |
| **Ozone** | Hazardous to the ozone layer |
| **PEL** | Permissible Exposure Limit |
| **Press. Gas** | Gases under pressure |
| **RCRA** | Resource Conservation and Recovery Act |
| **REC** | Recommended |
| **REL** | Recommended Exposure Limit |
| **Repr.** | Reproductive toxicity |
| **Resp. Sens.** | Respiratory sensitization |
| **SARA** | Superfund Amendments and Reauthorization Act of 1986 |
| **Skin Corr.** | Skin corrosion |
| **Skin Irrit.** | Skin irritation |
| **Skin Sens.** | Skin sensitization |
| **STEL** | Short-Term Exposure Limit |
| **STOT RE** | Specific target organ toxicity - repeated exposure |
| **STOT SE** | Specific target organ toxicity - single exposure |
| **TCLP** | Toxicity Characteristics Leaching Procedure |
| **TLV** | Threshold Limit Value |
| **TSCA** | Toxic Substances Control Act |

# Safe Use of Mixtures Information (SUMI)

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# Water Based Ink: WB02 *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 Safety Data Sheet (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 numbers, where applicable, complete an extended product SDS.*

**Operational conditions**

| | |
|---|---|
| **Maximum duration** | Up to 8 hours per day. |
| **Frequency of exposure** | < 240 days per year. |
| **Physical state** | Liquid. |
| **Process conditions** | Covers use at ambient temperatures.<br>Provide a good standard of controlled ventilation (10 to 15 air changes per hour).<br>Avoid direct contact.<br>Regular cleaning of equipment and work area.<br>Supervision in place to check that Risk Management Measures (RMM's) in place are being correctly used and Operational Conditions (OC's) followed. |

**Risk management measures**

| | |
|---|---|
| **Conditions and measures related to Personal Protection Equipment (PPE), hygiene and health evaluation** | Wear safety glasses with side shields (or goggles), if splashing is possible.<br>Wear appropriate chemical resistent gloves: see section 8 of the SDS.<br>Wear appropriate chemical resistent clothing.<br>In case of inadequate ventilation wear respiratory protection.<br>Eye wash station 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. |



**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.
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.
PROC28 - Manual maintenance (cleaning and repair) of machinery.
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".
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.