# SAFETY DATA SHEET

## Section 1: Identification of the chemical and of the supplier

**Product identifier** CB947Series

**Other means of identification** None.

**Recommended use of the chemical and restrictions on use**

**Recommended use** Inkjet printing

**Recommended restrictions** None known.

**Details of principal suppliers**

HP PPS Malaysia Sdn. Bhd.
Ground Floor Customer Service, Block B, No.12
Jalan Gelenggang, HP Towers, Bukit Damansara
Kuala Lumpur, Wilayah Persekutuan Kuala Lump, Malaysia 50490

**Telephone** 60-3-7953-3333

**HP Inc. health effects line**
**(Toll-free within the US)** 1-800-457-4209
**(Direct)** 1-760-710-0048

**HP Inc. Customer Care Line**
**(Toll-free within the US)** 1-800-474-6836
**(Direct)** 1-208-323-2551

**Email:** hpcustomer.inquiries@hp.com

## Section 2: Hazard identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**Environmental hazards** Not classified.

**Label elements**

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** Not available.

**Precautionary statement**

**Prevention** Not available.

**Response** Not available.

**Storage** Not available.

**Disposal** Not available.

**Other hazards which do not result in classification** 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.

**Supplemental information** None.

## Section 3: Composition and information of the ingredients of the hazardous chemical

**Mixtures**

**Hazardous components**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| 2-pyrrolidone | | 616-45-5 | <15 |

**Non-hazardous components**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Water | | 7732-18-5 | 75-85 |
| Carbon black | | 1333-86-4 | <5 |
| Isopropyl alcohol | | 67-63-0 | <2.5 |

**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

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

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

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

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

**Most important symptoms/effects, acute and delayed** Contact with skin and eyes may result in irritation.

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

## Section 5: Fire-fighting measures

**Suitable extinguishing media** $CO_2$, water, dry chemical, or foam

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical** None known.

**Special protective equipment and precautions for firefighters** None established.

**HAZCHEM code** None.

**Specific methods** None established.

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

## Section 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Wear appropriate personal protective equipment.

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

**Methods and materials for containment and cleaning up** Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Slowly vacuum or sweep the material into a bag or other sealed container.
Dispose of in compliance with federal, state, and local regulations.

## Section 7: Handling and storage

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

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

## Section 8: Exposure controls and personal protection

**Occupational exposure limits**

**Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations)**

| Components | Type | Value |
|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 3.5 mg/m3 |
| Isopropyl alcohol (CAS 67-63-0) | TWA | 983 mg/m3 |
| | | 400 ppm |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |
| Isopropyl alcohol (CAS 67-63-0) | STEL | 400 ppm | |
| | TWA | 200 ppm | |

**Biological limit values**

**ACGIH Biological Exposure Indices**

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| Isopropyl alcohol (CAS 67-63-0) | 40 mg/l | Acetone | Urine | * |

* - For sampling details, please see the source document.

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

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

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

**Eye/face protection** Not available.

**Skin protection**

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

**Other** Not available.

**Respiratory protection** Not available.

**Thermal hazards** Not available.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## Section 9: Physical and chemical properties

**Appearance**

**Physical state** Liquid.

**Form** Not available.

**Color** Black.

**Odor** Not available.

**Odor threshold** Not available.

**pH** 7.8 - 8.4

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

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

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

**Evaporation rate** Not determined

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

**Upper/lower flammability or explosive limits**

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

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

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

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

**Vapor pressure** Not determined

**Vapor density** Not available.

**Solubility(ies)**

**Solubility (water)** Soluble in water

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

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** > 2 cp

| | |
|---|---|
| **Other information** | No ignition, sustained combustion or flashing detected using the Sustained Combustibility Test (method in US 49CFR173, Appendix H).<br>No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous Goods Regulations Section 3.3.1.3. |
| **Bulk density** | 1 - 1.2 gm/ml |
| **Oxidizing properties** | Not determined |
| **Specific gravity** | 1 - 1.2 |
| **VOC** | < 116.6 g/l |

## Section 10: Stability and reactivity

| | |
|---|---|
| **Reactivity** | Not available. |
| **Chemical stability** | Stable under recommended storage conditions. |
| **Possibility of hazardous reactions** | Will not occur. |
| **Conditions to avoid** | Not available. |
| **Incompatible materials** | Incompatible with strong bases and oxidizing agents. |
| **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

**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 related to the physical, chemical and toxicological characteristics** | Not available. |

**Information on toxicological effects**

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

| Components | Species | Test Results |
|---|---|---|
| 2-pyrrolidone (CAS 616-45-5) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | > 5000 mg/kg |
| Carbon black (CAS 1333-86-4) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | > 10000 mg/kg |

| | |
|---|---|
| **Skin corrosion/irritation** | Based on available data, the classification criteria are not met. |
| **Serious eye damage/eye irritation** | Based on available data, the classification criteria are not met.<br>Not classified as an irritant according to, OECD 405. |
| **Respiratory or skin sensitization** | |
| **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.<br><br>Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. |

**IARC Monographs. Overall Evaluation of Carcinogenicity**

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

**US NTP Report on Carcinogens: Anticipated carcinogen**

Not available.

**US NTP Report on Carcinogens: Known carcinogen**

Not available.

**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.

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

## Section 12: Ecological information

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

**Ecotoxicity**

| Product | | Species | Test Results |
|---|---|---|---|
| CB947Series | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | > 750 mg/l, 96 hours |

| Components | | Species | Test Results |
|---|---|---|---|
| 2-pyrrolidone (CAS 616-45-5) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) | 13.21 mg/l, 48 hours |
| Isopropyl alcohol (CAS 67-63-0) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | > 1400 mg/l, 96 hours |
| *Acute* | | | |
| Algae | EC50 | Algae | > 1000 mg/l, 72 hours |
| Crustacea | EC50 | Daphnia | 13299 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 9460 mg/l, 96 hours |

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** Not available.

**Partition coefficient n-octanol / water (log Kow)**

| | |
|---|---|
| 2-pyrrolidone | -0.85 |
| Isopropyl alcohol | 0.05 |

**Mobility in soil** Not available.

**Other adverse effects** Not available.

## Section 13: Disposal information

**Disposal instructions** Do not allow this material to drain into sewers/water supplies.
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP 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.

**Waste from residues / unused products** Not available.

**Contaminated packaging** No special precautions.

## Section 14: Transportation information

**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**ADR**

Not regulated as dangerous goods.

| | |
|---|---|
| **HAZCHEM code** | None. |
| **Further information** | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.<br><br>No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous Goods Regulations Section 3.3.1.3.<br>No ignition, sustained combustion or flashing detected using the sustained combustibility test (method in US CFR173, Appendix H). |

## Section 15: Regulatory information

**Safety, health and environmental regulations specific for the product in question**

**Active Ingredients of Pesticide Product (Pesticide Act 1974, First Schedule, as amended through October 1, 2004)**

Not regulated.

**CWC (Chemical Weapons Convention) Act 2005, Schedules 1-3, as amended through CWC Regulations 2007, October 5, 2007)**

Not regulated.

**Ozone Depleting Substances (ODS) (Environmental Quality (Prohibition on the Use of CFC and Other Gases as Propellants and Blowing Agents) Order 1993, Dec. 31, 1993)**

Not regulated.

**Prohibited Use of Substances [Occupational Safety and Health (Prohibition of Use of Substance) Order 1999]**

Not regulated.

**International regulations**

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

**Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Montreal Protocol**

Not applicable.

**Kyoto protocol**

Not applicable.

**Basel Convention**

Not applicable.

## Section 16: Other information

| | |
|---|---|
| **Issue date** | 18-May-2018 |
| **Revision date** | 27-Oct-2018 |
| **Version #** | 02 |
| **References** | Not available. |
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| **Revision information** | Physical & Chemical Properties: Multiple Properties<br>Section 9: Physical and chemical properties: Other information |

**Explanation of abbreviations**

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