1. Identification of the chemical and information about the manufacturer or supplier

1.1 Identification of the chemical products

1.1.1 Technical name
HP Indigo ElectroInk Black for use with HP Indigo Digital Presses 10000 and 12000. CONCENTRATED. D9U56B

Other means of identification
Synonyms: Part Number D9U56B

1.1.2 Recommended use of the chemical and restrictions on use
Recommended use: HP product for use with HP Indigo Digital Presses 10000 and 12000.
Limitations on use: None known.

1.2 Manufacturer/Importer/Supplier/Distributor information

1.2.1 Manufacturer
ZAO Hewlett-Packard A.O.
Highway Leningradskoe, House 16A, Building 3, 125171, Moscow

Telephone: 7 495 797-3500
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

2. Hazard(s) identification

2.1. Hazard identification of chemical product as a whole (classification according to GOST 12.1.007-76 and GHS)
Classification according to GOST 12.1.007-76: Not available.

GHS classification
Physical hazards: Not classified.
Health hazards: Not classified.
Environmental hazards: Not classified.

2.2 Labeling elements in compliance with GOST 31340-2013

2.2.1 Signal word: None.
2.2.2 Symbols: None.
2.2.3 Hazard statement: The mixture does not meet the criteria for classification.

Precautionary statement
Prevention: Not available.
Response: Not available.
Storage: Not available.
Disposal: Not available.

Other hazards: 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.

3. Composition/information on ingredients

3.1 Information on product as a whole
3.1.1 Chemical name (IUPAC): D9U56B
3.1.2 Chemical formula

C11-15 ISO (90622-58-5), UVCB (1333-86-4), UVCB (1333-86-4), C37-H29-N3-O3-S (1324-76-1), C37-H29-N3-O3-S (1324-76-1), (C2-F4)x- (9002-84-0), (-CF2-CF2-)x (9002-84-0)

3.1.3 General description of the composition (taking into account the brand assortment; preparation method)

Not applicable.

3.2 Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Concentration by weight (%)</th>
<th>MAC, mg/m3</th>
<th>TSEL, mg/m3</th>
<th>Hazard classification</th>
<th>CAS-No.</th>
<th>EC No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum hydrocarbon</td>
<td>&lt;70</td>
<td></td>
<td></td>
<td></td>
<td>90622-58-5</td>
<td>292-460-6</td>
</tr>
<tr>
<td>C.I.P. B 7 No. 77266</td>
<td>&lt;7.5</td>
<td></td>
<td></td>
<td></td>
<td>1333-86-4</td>
<td>215-609-9</td>
</tr>
<tr>
<td>C.I.P. B. 61 No. 42765:1</td>
<td>&lt;2.5</td>
<td></td>
<td></td>
<td></td>
<td>1324-76-1</td>
<td>215-385-2</td>
</tr>
<tr>
<td>Fluoropolymer resin</td>
<td>&lt;2.5</td>
<td>10</td>
<td></td>
<td></td>
<td>9002-84-0</td>
<td>-</td>
</tr>
</tbody>
</table>

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

4. First-aid measures

4.1. Observed symptoms

4.1.1 In case of exposure via inhalation
Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

4.1.2 In contact with skin
Prolonged skin contact may cause redness, irritation and dry skin.

4.1.3 In contact with eyes
Contact with eyes may result in mild irritation.

4.1.4 In case of exposure via ingestion
Ingestion is not a likely route of exposure.

4.2 First-aid measures to be provided to victims

4.2.1 In case of exposure via inhalation
If overcome by vapor, remove person from exposure to fresh air. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.

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

4.2.3 In contact with eyes
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. Do not apply neutralizing agents.

4.2.4 In case of exposure via ingestion
Do not induce vomiting. Never give anything by mouth to an unconscious person. If ingestion of a large amount does occur, seek medical attention.

4.2.5 Contraindications
Not available.

5. Fire-fighting and explosion safety measures and means

5.1 General characteristics of fire-explosion properties
Not available.

5.2 Fire-explosion indicators
Not available.

5.3 Combustion and/or thermal destruction products and hazards arising from these
None known.

5.4 Recommended extinguishing media
Suitable extinguishing media: Dry chemical, CO2, water spray or regular foam.

5.5 Forbidden extinguishing media
None known.

5.6 Special protective equipment for firefighters
Not available.

5.7 Specific extinguishing methods
Not available.

Special fire fighting procedures
Move containers from fire area if you can do it without risk. Evacuate area and fight fire from a safe distance.
6. Accident and emergency prevention and response measures and their consequences

6.1 Measures to prevent harmful effects on people, environment, buildings, constructions, etc. in case of accidents and emergencies

6.1.1 General required actions in case of an accident or emergency
Wear appropriate personal protective equipment.

6.1.2 Personal protection equipment in case of the accident
Not available.

6.2 Procedures for the elimination of accidents and emergencies

6.2.1 Procedures in case of leaks, spills, splashes
In case of large spills, follow all facility emergency response procedures.
Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container.
Dispose of in compliance with federal, state, and local regulations.
See also section 13 Disposal considerations.

6.2.2 Actions in case of fire
Not available.

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

7. Storage and handling requirements of chemicals during loading and unloading

7.1 Safety precautions when handling chemical products

7.1.1 Technical safety measures
Not available.

7.1.2 Environmental protection measures
Not available.

7.1.3 Recommended safe handling and transportation advice
Avoid prolonged or repeated skin contact with this material. Do not reuse the empty container.
Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

7.2 Chemical storage requirements

7.2.1 Terms and conditions for safe storage
Store in accordance with local/regional/national/international regulation.

7.2.2 Packaging
Keep away from excessive heat or cold. Store in a cool and shaded area. Do not store in direct sunlight.

7.3 Safety measures and storage requirements at domestic use

8. Equipment for monitoring exposure and personal protective equipment

8.1 Parameters of the working area that require monitoring
No exposure limits noted for ingredient(s).

Occupational exposure limits
Russian Federation. Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoropolymer resin (CAS 9002-84-0)</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>Aerosol</td>
</tr>
</tbody>
</table>

8.2 Measures to ensure the content of harmful substances in the working area below the exposure level concentration
Manufacturer recommended exposure limit based on petroleum hydrocarbon at > 75%. TWA = 171ppm (1200 mg/m3).

Appropriate engineering controls
Use in a well ventilated area.

8.3 Worker personal protective equipment

8.3.1 General recommendations
Use personal protective equipment to minimize exposure to skin and eye.

8.3.2 Respiratory protection
Not available.

8.3.3 Protective equipment
Eye/face protection
Not available.
Hand protection
Not available.
Other
Not available.
Thermal hazards
Not available.
### 8.3.4 Personal protection equipment in case of domestic use

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

### 9. Physical and chemical properties

#### 9.1 Physical appearance
- **Physical appearance**: Paste
- **Physical state**: Solid.
- **Form**: Not available.
- **Color**: Black.
- **Odor**: Mild hydrocarbon-like
- **Odor threshold**: Not available.

#### 9.2 Parameters characterizing basic properties of the product
- **pH**: Not available.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: Not available.
- **Flash point**: Not available.
- **Auto-ignition temperature**: Not available.
- **Decomposition temperature**: Not available.
- **Upper/lower flammability or explosive limits**
  - **Flammability limit - lower (%)**: Not available.
  - **Flammability limit - upper (%)**: Not available.
- **Vapor pressure**: Not available.
- **Viscosity**: Not available.
- **Solubility(ies)**
  - **Solubility (water)**: Not soluble in water
- **Partition coefficient (n-octanol/water)**: Not available.
- **Other data**
  - **Oxidizing properties**: Not applicable.
  - **Specific gravity**: 0.86
  - **VOC**: 540 g/L (4.51 lbs/gal. US)

### 10. Stability and reactivity

#### 10.1 Chemical stability
- **Stable under recommended storage conditions.**
- **Hazardous decomposition products**: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

#### 10.2 Reactivity
- **Not available.**

#### 10.3 Conditions to avoid
- **Not available.**

#### Possibility of hazardous reactions
- **Will not occur.**
- **Incompatible materials**: This product may react with strong oxidizing agents.

### 11. Toxicological information

#### 11.1 General exposure characteristics
- **Not available.**

#### 11.2 Routes of exposure
- **Not available.**

#### 11.3 Affected/target organs, tissues and systems of humans
- **Specific target organ toxicity - single exposure**: Not classified.
- **Specific target organ toxicity - repeated exposure**: Not classified.
11.4 Information on health hazards in case of direct exposure to the product and its effect

Effect on upper respiratory tract irritation

Respiratory or skin sensitization

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

Not listed.

Respiratory sensitization Not classified.
Skin sensitization Not classified.
Skin corrosion/irritation Not classified.
Serious eye damage/eye irritation Not classified.
Aspiration hazard Not classified.

11.5 Information on long-term hazardous health effects

Carcinogenicity 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
C.I.P.B 7 No. 77266 (CAS 1333-86-4) 2B Possibly carcinogenic to humans.
Fluoropolymer resin (CAS 9002-84-0) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Not classified.
Mutagenicity Not classified.
Cumulativeness Not available.
Chronic effects Not available.

11.6 Acute toxicity data

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I.P.B 7 No. 77266 (CAS 1333-86-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 10000 mg/kg</td>
</tr>
<tr>
<td>C.I.P.B. 61 No. 42765:1 (CAS 1324-76-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt;= 2000 mg/kg</td>
</tr>
</tbody>
</table>

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.

12. Environmental impact information

Aquatic toxicity This product has not been tested for ecological effects.

12.1 General description of the impact on the environment Not available.

12.2 Routes of exposure to environment Not available.

12.3 The most important characteristics of the environmental impact

12.3.1 Hygienic standards Not available.

12.3.2 Ecotoxicity No ecotoxicity data noted for the ingredient(s)

12.3.3 Biomigration and transformation of the environment due to the biodegradation or other processes Persistence and degradability Not available.
Bioaccumulative potential Not available.
Mobility in soil Not available.

Other adverse effects Not available.
13. Recommendations for waste (residues) disposal

13.1 Safety precautions when handling the waste generated during use, storage, transportation
Dispose of in compliance with federal, state, and local regulations.

13.2 Information on the location and disposal methods, recycling or disposal of product waste, including packaging
Not available.

13.3 Recommendation on the waste disposal generated during its domestic use
Not available.

14. Transport 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.

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

15. National and international regulatory information

15.1 National legislation
15.1.1 Laws of the Russian Federation
Not available.

15.1.2 Information about the documentation, regulatory requirements for the protection of human health and environment
Sanitary-Epidemiological Rules,1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008
Not listed.

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.
Fluoropolymer resin (CAS 9002-84-0) Aerosol with fibrogenic action.
Slightly hazardous.

15.2 International Conventions and Agreements
Stockholm Convention
Not applicable.

Rotterdam Convention
Not applicable.

Montreal Protocol
Not applicable.

Kyoto protocol
Not applicable.

Basel Convention
Not applicable.

16. Other information

16.1 Information on revision of the SDS
Issue date 12-Aug-2017
Revision date 10-Oct-2017
Version # 02
Previous SDS number Not applicable.

16.2 List of references used in compiling the safety data sheet
Not available.
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.

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