1. Identification

Product identifier       HP Indigo Topaz 17 Solution
MPS-2088-41

Other means of identification        Not available.

Recommended use       HP product for use with HP Indigo Digital Presses 2000, 4000.

Recommended restrictions        None known.

Issue date       05-Jun-2014

Company identification        Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-5020

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

Physical hazards          Flammable liquids               Category 3

Health hazards            Acute toxicity, oral            Category 3
                                 Serious eye damage/eye irritation Category 1
                                 Specific target organ toxicity, single exposure Category 3 respiratory tract irritation
                                 Specific target organ toxicity, single exposure Category 3 narcotic effects

OSHA hazard(s)           Not classified.

Label elements

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger</td>
<td>Highly flammable liquid and vapor. Causes serious eye damage. May cause drowsiness or dizziness.</td>
</tr>
</tbody>
</table>

Precautionary statement

Prevention
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Store in a well-ventilated place. Keep container tightly closed.

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

Hazard(s) not otherwise classified (HNOC)
Static accumulating flammable liquid

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propyl Alcohol</td>
<td></td>
<td>71-23-8</td>
<td>&lt;90</td>
</tr>
</tbody>
</table>

Material name: MPS-2088-41
9324  Version #: 02  Revision date: 07-Jul-2014  Issue date: 05-Jun-2014
Non-hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyamide Resin</td>
<td>68139-70-8</td>
<td>&lt;20</td>
</tr>
</tbody>
</table>

Composition comments

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First-aid measures

Inhalation
If overcome by vapor, remove person from exposure to fresh air. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.

Skin contact
Wash affected areas thoroughly with mild soap and water. Immediately take off all contaminated clothing. Wash clothing separately before reuse. 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. Do not apply neutralizing agents.

Ingestion
Rinse mouth with water. Drink one to two glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. If ingestion of a large amount does occur, seek medical attention.

Most important symptoms/effects, acute and delayed

Not available.

5. Fire-fighting measures

Flash point
73.40 °F (23.00 °C) Pensky-Martens Closed Cup

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

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
None known.

Special protective equipment and precautions for firefighters
Not available.

Fire-fighting equipment/instructions
Move containers from fire area if you can do it without risk. Evacuate area and fight fire from a safe distance.

6. Accidental release measures

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

Methods and materials for containment and cleaning up
Not available.

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

7. Handling and storage

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

Conditions for safe storage, including any incompatibilities
Keep away from excessive heat or cold. Store in a cool and shaded area. Do not store in direct sunlight.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propyl Alcohol (CAS 71-23-8)</td>
<td>PEL</td>
<td>500 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

Material name: MPS-2088-41
9324 Version #: 02 Revision date: 07-Jul-2014 Issue date: 05-Jun-2014
**US. ACGIH Threshold Limit Values**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propyl Alcohol (CAS 71-23-8)</td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

**US. NIOSH: Pocket Guide to Chemical Hazards**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propyl Alcohol (CAS 71-23-8)</td>
<td>STEL</td>
<td>625 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>500 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**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**
    - Not available.
  - **Other**
    - Not available.

- **Respiratory protection**
  - Not available.

- **Thermal hazards**
  - Not available.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and chemical properties**

- **Appearance**
  - clear liquid

- **Physical state**
  - Liquid.

- **Color**
  - Not available.

- **Odor**
  - alcoholic

- **Odor threshold**
  - Not available.

- **pH**
  - 7

- **Melting point/freezing point**
  - Not applicable

- **Initial boiling point and boiling range**
  - 206.6 °F (97 °C) (based on n-propanol)

- **Flash point**
  - 73.40 °F (23.00 °C) Pensky-Martens Closed Cup

- **Evaporation rate**
  - Not available.

- **Flammability (solid, gas)**
  - Not applicable.

- **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**
  - 19 kPa (based on n-propanol)

- **Solubility(ies)**
  - miscible

- **Partition coefficient (n-octanol/water)**
  - 0.3 (based on n-propanol)

- **Auto-ignition temperature**
  - 743 °F (395 °C)

- **Decomposition temperature**
  - Not available.

- **Viscosity**
  - Not available.

- **Other information**
  - **Oxidizing properties**
    - Not applicable.
  - **Softening point**
    - Not applicable
  - **Specific gravity**
    - 0.844
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: This product may react with strong oxidizing agents.

Hazardous decomposition products: Not applicable.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics: Not available.

Information on toxicological effects

Acute toxicity

Skin corrosion/irritation: Not available.

Serious eye damage/eye irritation: Not available.

Respiratory sensitization: Not available.

Skin sensitization: Not available.

Germ cell mutagenicity: Not available.

Carcinogenicity: Not available.

Reproductive toxicity: Not available.

Specific target organ toxicity - single exposure: Not available.

Specific target organ toxicity - repeated exposure: Not available.

Aspiration hazard: Not available.

Further information: No data is available on the product itself.

Components | Species | Test Results |
--- | --- | --- |
 **Acute**<br>
oreal<br>
LD50<br>
Mouse | 6800 mg/kg |
Rabbit | 2.8 g/kg |
Rat | 1.87 g/kg |

Other<br>
LD50<br>
Mouse | 3125 mg/kg |
Rat | 590 mg/kg |

Polyamide Resin (CAS 68139-70-8)

**Acute**

oreal<br>
LD50<br>
Rat | >= 15000 mg/kg |

12. Ecological information

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propyl Alcohol (CAS 71-23-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3339 - 3977 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Bleak (Alburnus alburnus)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3000 - 4000 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

<table>
<thead>
<tr>
<th>Material</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPS-2088-41</td>
<td>0.25, (based on n-propanol) Estimated</td>
</tr>
<tr>
<td>n-Propyl Alcohol</td>
<td>0.25</td>
</tr>
</tbody>
</table>

Mobility in soil Not available.

13. Disposal considerations

Disposal instructions Dispose of in compliance with federal, state, and local regulations.

Local disposal regulations Not available.

Hazardous waste code Not regulated.

Waste from residues / unused products Not available.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport information

IATA

<table>
<thead>
<tr>
<th>IATA</th>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Subsidiary class(es)</th>
<th>Packaging group</th>
<th>Environmental hazards</th>
<th>Labels required</th>
<th>ERG Code</th>
<th>Special precautions for user</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN1274</td>
<td>n-Propanol</td>
<td>3</td>
<td>-</td>
<td>II</td>
<td>No</td>
<td>3</td>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

IMDG

<table>
<thead>
<tr>
<th>IMDG</th>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Subsidiary class(es)</th>
<th>Packaging group</th>
<th>Marine pollutant</th>
<th>Labels required</th>
<th>EmS</th>
<th>Special precautions for user</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN1274</td>
<td>n-Propanol</td>
<td>3</td>
<td>-</td>
<td>II</td>
<td>No</td>
<td>3</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available.
15. Regulatory information

**US federal regulations**

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

US TSCA 12(b): Does not contain listed chemicals.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.


Not on regulatory list.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate Hazard - No</td>
<td></td>
</tr>
<tr>
<td>Delayed Hazard - No</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard - Yes</td>
<td></td>
</tr>
<tr>
<td>Pressure Hazard - No</td>
<td></td>
</tr>
<tr>
<td>Reactivity Hazard - No</td>
<td></td>
</tr>
</tbody>
</table>

**SARA 302 Extremely hazardous substance**

No

**SARA 311/312 Hazardous chemical**

No

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Not listed.

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)**

Not regulated.

**DEA Exempt Chemical Mixtures Code Number**

Not regulated.

**Food and Drug Administration (FDA)**

Not regulated.

**US state regulations**

**US. Massachusetts RTK - Substance List**

n-Propyl Alcohol (CAS 71-23-8)

**US. New Jersey Worker and Community Right-to-Know Act**

Not regulated.

**US. Pennsylvania RTK - Hazardous Substances**

n-Propyl Alcohol (CAS 71-23-8)

**US. Rhode Island RTK**

n-Propyl Alcohol (CAS 71-23-8)

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

**Regulatory information**

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.

16. Other information, including date of preparation or last revision

**Issue date**

05-Jun-2014

**Revision date**

07-Jul-2014
Further information

Not available.

Disclaimer

This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company 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.

Manufacturer information

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1187 XR Amstelveen
The Netherlands
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209

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