1. Product and Company Identification

Identification of the preparation
HP Indigo Sapphire 5 Solution
MPS-2041-41

Product use

Version #
06

Revision date
08-Apr-2012

Company identification
Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199

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

Email: hpcustomer.inquiries@hp.com

2. Hazards Identification

Emergency overview
Harmful if swallowed.

Acute health effects
Any potential hazards are presumed to be due to exposure to the components.

Skin contact
Unlikely to cause skin irritation.

Inhalation
No information available.

Ingestion
Ingestion of this product may cause nausea, vomiting and diarrhea.

Potential health effects

Routes of exposure
Potential routes of exposure to this product are skin and eye contact and ingestion.

Chronic health effects
None known.

Carcinogenicity
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.

Other information
This product is classified for health effects according to EU Directive 1999/45/EC with R52/53.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethyleneimine</td>
<td>mixture</td>
<td>2.5 - 5</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

First aid procedures

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.

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.

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

5. Fire Fighting Measures

Extinguishing media

| Suitable extinguishing media: Dry chemical, CO2, water spray or regular foam. |
| Unsuitable extinguishing media: None known. |

Protection of firefighters

| Specific hazards arising from the chemical: None known. |
| Protective equipment and precautions for firefighters: Move containers from fire area if you can do it without risk. Evacuate area and fight fire from a safe distance. |

Hazardous combustion products: Refer to section 10.

6. Accidental Release Measures

Personal precautions

Wear appropriate personal protective equipment.

Environmental precautions

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

7. Handling and Storage

Handling

Avoid prolonged or repeated skin contact with this material. Avoid contact with skin, eyes and clothing. Do not reuse the empty container.

Storage

Keep away from excessive heat or cold. Store in a cool and shaded area. Do not store in direct sunlight. Keep container closed when not in use.

8. Exposure Controls / Personal Protection

Engineering controls

Use in a well ventilated area.

Personal protective equipment

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

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

9. Physical & Chemical Properties

Appearance: aqueous solution

Color: Not available.

Odor: Odorless

Odor threshold: Not available.

Physical state: Liquid

Form: Not available.

pH: 13 (undiluted)

Melting point: Not applicable

Freezing point: Not available.

Boiling point: Not applicable

Flash point: Not available.
Evaporation rate Not available.
Flammability limits in air,
upper, % by volume Not available.
Flammability limits in air,
lower, % by volume Not available.
Vapor pressure Not available.
Vapor density Not available.
Specific gravity 1.03 (20 °C)
Relative density Not available.
Solubility (water) Soluble in water
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Softening point Not applicable
VOC 0 g/L

10. Chemical Stability & Reactivity Information
Chemical stability Stable under normal storage conditions.
Incompatible materials Not available.
Hazardous decomposition products none under normal use
Possibility of hazardous reactions Will not occur.

11. Toxicological Information
Toxicological information Refer to Section 2 for potential health effects and Section 4 for first aid measures.
Serious eye damage/eye irritation Not available.
Further information No data is available on the product itself.

12. Ecological Information
Aquatic toxicity This product has not been tested for ecological effects.
Persistence and degradability Not available.

13. Disposal Considerations
Disposal instructions Dispose of in compliance with federal, state, and local regulations.
Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport Information
Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
DOT Not regulated as dangerous goods.
IATA Not regulated as dangerous goods.
IMDG Not regulated as dangerous goods.
RID Not regulated as dangerous goods.

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.
CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical

Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

Yes

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

Other information

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

HMIS® ratings

Health: 2
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 0
Instability: 0

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.

Issue date

08-Apr-2012

This data sheet contains changes from the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names
11. Toxicological Information: Toxicological information
14. Transport Information: Further information
Regulatory Information: Risk Phrases - Labeling

Manufacturer information

Hewlett-Packard Indigo BV
Startbaan 16
1187 XR Amstelveen
The Netherlands
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209
## Explanation of abbreviations

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