



SAFETY DATA SHEET

1. Identification

Product identifier HP Indigo Sapphire Indicator
MCH-1121-41

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

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2. Hazard(s) identification

Physical hazards Flammable liquids Category 2

Health hazards Not classified.

OSHA hazard(s) Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor.

Precautionary statement

Prevention Do not breathe vapor.
Keep away from heat.

Response Not available.

Storage P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P210 - Keep away from heat.

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

Hazard(s) not otherwise classified (HNOC) Not classified.

3. Composition/information on ingredients

Mixtures

| Hazardous components | CAS number | % |
|---------------------------------------|------------|------|
| Chemical name Ethyl Alcohol | 64-17-5 | <100 |

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 | 57.20 °F (14.00 °C) Pinsky-Martens Closed Cup (based on Ethanol) |
| 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 | Wear suitable protective equipment. 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)

| Components | Type | Value |
|-----------------------------|------|------------------------|
| Ethyl Alcohol (CAS 64-17-5) | PEL | 1900 mg/m3 1000 ppm |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|-----------------------------|------|----------|
| Ethyl Alcohol (CAS 64-17-5) | STEL | 1000 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|-----------------------------|------|------------------------|
| Ethyl Alcohol (CAS 64-17-5) | TWA | 1900 mg/m3 1000 ppm |

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 | Not available. |
| Odor threshold | Not available. |
| pH | Not applicable |
| Melting point/freezing point | Not applicable |
| Initial boiling point and boiling range | 172.4 °F (78 °C) (based on Ethanol) |
| Flash point | 57.20 °F (14.00 °C) Pensky-Martens Closed Cup (based on Ethanol) |
| 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 | 59 kPa (based on Ethanol) |
| Solubility(ies) | soluble in water, ether, acetone and oil/fats |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | 689 °F (365 °C) (based on Ethanol) |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Softening point | Not applicable |
| Specific gravity | 0.794 |
| VOC (Weight %) | 795 g/L |

10. Stability and reactivity

| | |
|---|---|
| Reactivity | Not available. |
| Chemical stability | Stable at normal conditions |
| Possibility of hazardous reactions | Will not occur. |
| Conditions to avoid | Heat, flames and sparks. Direct sources of heat. |
| Incompatible materials | Strong oxidizing agents., alkaline metals, strong acids and strong bases, acid chlorides, acid anhydrides, reducing agents and ammonia. |
| Hazardous decomposition products | Carbon monoxide and carbon dioxide. |

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 |
|-----------------------------|------------|----------------------|
| Ethyl Alcohol (CAS 64-17-5) | | |
| Acute | | |
| <i>Inhalation</i> | | |
| LC50 | Mouse | 39 mg/l, 4 Hours |
| | Rat | 20000 mg/l, 10 Hours |
| <i>Oral</i> | | |
| LD50 | Dog | 5.5 g/kg |
| | Guinea pig | 5.6 g/kg |
| | Mouse | 3450 mg/kg |
| | Rat | 7060 mg/kg |
| | | 6.2 g/kg |
| <i>Other</i> | | |
| LD50 | Mouse | 933 mg/kg |
| | Rat | 1440 mg/kg |

12. Ecological information

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

Ecotoxicity

| Components | Species | Test Results | |
|-----------------------------|---------|--------------------------------------|---------------------------|
| Ethyl Alcohol (CAS 64-17-5) | | | |
| Crustacea | EC50 | Daphnia | 9268, 48 Hours |
| Fish | LC50 | Fish | 12900, 96 Hours |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 7.7 - 11.2 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | > 100 mg/l, 96 hours |

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Ethyl Alcohol -0.31

Mobility in soil Not available.

Other adverse effects 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

UN number UN1170
UN proper shipping name Ethanol
Transport hazard class(es) 3
Subsidiary class(es) -
Packaging group II
Environmental hazards No
Labels required 3
ERG Code Not available.
Special precautions for user Not available.

IMDG

UN number UN1170
UN proper shipping name Ethanol
Transport hazard class(es) 3
Subsidiary class(es) -
Packaging group II
Environmental hazards
Marine pollutant No
Labels required 3
EmS Not available.
Special precautions for user Not available.

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

IATA; IMDG



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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

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

Ethyl Alcohol (CAS 64-17-5)

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

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Ethyl Alcohol (CAS 64-17-5)

US. Rhode Island RTK

Ethyl Alcohol (CAS 64-17-5)

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

Version # 02

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.

Revision Information GHS: Classification

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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 |