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

1.1 Identification of the chemical products

1.1.1 Technical name

M0J78Series

Other means of identification

None.

1.1.2 Recommended use of the chemical and restrictions on use

Recommended use

Inkjet printing

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

Not available.

Precautionary statement

Prevention

Not available.

Response

Not available.

Storage

Not available.

Disposal

Not available.

2.3 Other hazards

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.

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.

Supplemental information

None.
3. Composition/information on ingredients

3.1 Information on product as a whole

3.1.1 Chemical name (IUPAC)
M0J78Series

3.1.2 Chemical formula
H2O (7732-18-5), C4-H7-N-O (616-45-5), C4-H7-N-O (616-45-5)

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>Hygienic standards in the working area</th>
<th>CAS-No.</th>
<th>EC No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAC, mg/m³</td>
<td>TSEL, mg/m³</td>
<td>Hazard classification</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>70-90</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidone</td>
<td>&lt;10</td>
<td>10</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Composition comments
This ink supply contains an aqueous ink formulation.

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
Contact with skin may result in mild irritation.

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

4.1.4 In case of exposure via ingestion
Health injuries are not known or expected under normal use.

4.2 First-aid measures to be provided to victims

4.2.1 In case of exposure via inhalation
Move to fresh air. 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.

4.2.4 In case of exposure via ingestion
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
Not available.

5.4 Recommended 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
None established.

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

6.2 Procedures for the elimination of accidents and emergencies

6.2.1 Procedures in case of leaks, spills, splashes
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
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.

Methods and materials for containment and cleaning up

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 contact with skin, eyes and clothing.

7.2 Chemical storage requirements

7.2.1 Terms and conditions for safe storage
Not available.

7.2.2 Packaging
Not available.

7.3 Safety measures and storage requirements at domestic use
Keep out of the reach of children. Keep away from excessive heat or cold.

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>2-pyrrolidone (CAS 616-45-5)</td>
<td>Ceiling</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
Exposure limits have not been established for this product.

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
Not applicable.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.
9. Physical and chemical properties

9.1 Physical appearance
- Physical state: Liquid.
- Form: Not available.
- Color: Magenta
- Odor: Not available.
- Odor threshold: Not available.

9.2 Parameters characterizing basic properties of the product
- pH: 9 - 9.5
- Melting point/freezing point: Not available.
- Initial boiling point and boiling range: Not available.
- Flash point: > 230.0 °F (> 110.0 °C)
- 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 available.
- Partition coefficient (n-octanol/water): Not available.
- Other data:
  - Oxidizing properties: Not determined
  - VOC: 204 g/l

10. Stability and reactivity

10.1 Chemical stability
- Hazardous decomposition products: Stable under recommended storage conditions.
- Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

10.2 Reactivity
- Not available.

10.3 Conditions to avoid
- Will not occur.
- Possibility of hazardous reactions: Incompatible with strong bases and 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: 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.

11.4 Information on health hazards in case of direct exposure to the product and its effect
- Effect on upper respiratory tract irritation: Not available.
- 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: Based on available data, the classification criteria are not met.

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

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.

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

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

11.5 Information on long-term hazardous health effects

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

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

Mutagenicity: Not available.

Cumulativeness: Not available.

Chronic effects: Not available.

11.6 Acute toxicity data

Components | Test Results
--- | ---
2-pyrrolidone (CAS 616-45-5) | 
Acute Oral LD50 | Rat > 5000 mg/kg

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

12.1 General description of the impact on the environment

Aquatic toxicity: No information available.

12.2 Routes of exposure to the environment

Not available.

12.3 The most important characteristics of the environmental impact

12.3.1 Hygienic standards

Not available.

12.3.2 Ecotoxicity

Components | Test Results
--- | ---
2-pyrrolidone (CAS 616-45-5) | 
Aquatic Crustacea EC50 | Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

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

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.

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.
2-pyrrolidone (CAS 616-45-5) 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 27-Aug-2017
Revision date 16-Oct-2017
Version # 08
Previous SDS number Not applicable.

16.2 List of references used in compiling the safety data sheet

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