



SAFETY DATA SHEET

1. Identification of the product

GHS product identifier C9445 Series
Other means of identification Not available.
Recommended use of the chemical and restrictions on use
Recommended use Inkjet printing
Recommended restrictions None known.
Issue date 12-Mar-2015
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Version # 02
Company identification Computing and Printing Mexico S. de R.L. de C.V.
Av. Vasco de Quiroga No. 2999
Mexico City, Distrito Federal, Mexico 01210
Telephone 52 (55) 5258-4000

HP 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 identification

Classification of the substance or mixture

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

GHS label elements, including precautionary statements

Hazard symbols None.
Signal word None.
Hazard statement Not available.
Precautionary statement
Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

Other hazards which do not result in classification 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. Complete toxicity data are not available for this specific formulation.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

| Chemical identity | Common name(s), synonym(s) | CAS number and other unique identifiers | Concentration |
|-------------------|----------------------------|---|---------------|
| Water | | 7732-18-5 | 70-80 |
| Diethylene glycol | | 111-46-6 | <7.5 |

| Chemical identity | Common name(s), synonym(s) | CAS number and other unique identifiers | Concentration |
|-----------------------------|----------------------------|---|---------------|
| 2-pyrrolidone | | 616-45-5 | <5 |
| Alkyldiol | | Proprietary | <5 |
| Glycerol | | 56-81-5 | <5 |
| Trade secret green colorant | | Proprietary | <1 |

Composition comments This ink supply contains an aqueous ink formulation.

4. First-aid measures

Description of necessary first-aid measures

| | |
|---------------------|---|
| Inhalation | Move to fresh air. If symptoms persist, get medical attention. |
| Skin contact | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention. |
| 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. |
| Ingestion | If material is ingested, immediately contact a physician or poison control center. |

Most important symptoms/effects, acute and delayed Not available.

5. Fire-fighting measures

| | |
|--|--|
| Flash point | > 230.0 °F (> 110.0 °C) Setaflash Closed Cup |
| Suitable extinguishing media | CO ₂ , water, dry chemical, or foam |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | Not applicable. |
| Special protective actions for firefighters | Not available. |
| Specific methods | None established. |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | |
|------------------------------------|---|
| For non-emergency personnel | Wear appropriate personal protective equipment. |
| For emergency responders | Not available. |

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

Methods and materials for containment and cleaning up Not available.

Other issues relating to spills and releases 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

Precautions to ensure safe handling Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Mexico. Occupational Exposure Limit Values

| Components | Type | Value | Form |
|--|--|----------------------|-------|
| Glycerol (CAS 56-81-5) | TWA | 10 mg/m ³ | Mist. |
| Biological limit values | No biological exposure limits noted for the ingredient(s). | | |
| Exposure guidelines | Exposure limits have not been established for this product. | | |
| Control banding approach | Not available. | | |
| 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

Physical state Not available.

Color Green

Odor Not available.

Odor threshold Not available.

pH 9.2

Melting point/freezing point Not available.

Initial boiling point and boiling range Not determined

Flash point > 230.0 °F (> 110.0 °C) Setaf flash Closed Cup

Evaporation rate Not determined

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not determined

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not determined

Solubility(ies)

Solubility (water) Soluble in water

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not determined

Decomposition temperature Not available.

Viscosity Not available.

Other information

Oxidizing properties Not determined

VOC (Weight %) 169.3 g/l

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 | Incompatible with strong bases and oxidizing agents. |
| Hazardous decomposition products | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. aldehydes, ketones, hydrogen fluoride, fluorinated hydrocarbons |

11. Toxicological information

Information on likely routes of exposure

Symptoms Not available.

Information on toxicological effects

Acute toxicity 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.

Respiratory or skin sensitization

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

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

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

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

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

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.

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

Other 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.

| Components | Species | Test Results |
|----------------------------------|------------|--------------|
| 2-pyrrolidone (CAS 616-45-5) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Guinea pig | 6500 mg/kg |
| | Rat | 6500 mg/kg |
| Diethylene glycol (CAS 111-46-6) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 11890 mg/kg |
| <i>Oral</i> | | |
| LD50 | Cat | 3300 mg/kg |
| | Dog | 9000 mg/kg |
| | Guinea pig | 8700 mg/kg |
| | Mouse | 13.3 g/kg |
| | Rabbit | 26.9 g/kg |
| | Rat | 12565 mg/kg |
| <i>Other</i> | | |
| LD50 | Mouse | 9.6 g/kg |

| Components | Species | Test Results |
|------------|---------|--------------|
| | Rabbit | 2000 mg/kg |
| | Rat | 7700 mg/kg |
| | | 7.7 g/kg |

12. Ecological information

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

| | |
|---------------|-------|
| 2-pyrrolidone | -0.85 |
| Glycerol | -1.76 |

Mobility in soil Not available.

Other adverse effects Not available.

Ecotoxicity

| Product | Species | Test Results |
|---------|---------|--------------|
|---------|---------|--------------|

C9445 Series (CAS Mixture)

Aquatic

Acute

Fish LC50 Fathead minnow (*Pimephales promelas*) > 750 mg/l, 96 hours

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

2-pyrrolidone (CAS 616-45-5)

Aquatic

Crustacea EC50 Water flea (*Daphnia pulex*) 13.21 mg/l, 48 hours

Diethylene glycol (CAS 111-46-6)

Aquatic

Fish LC50 Western mosquitofish (*Gambusia affinis*) > 32000 mg/l, 96 hours

Glycerol (CAS 56-81-5)

Aquatic

Fish LC50 Rainbow trout, donaldson trout (*Oncorhynchus mykiss*) 51000 - 57000 mg/l, 96 hours

13. Disposal considerations

Disposal methods

Disposal instructions 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>.

Local disposal regulations Not available.

Waste from residues / unused products Not available.

Contaminated packaging 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. Regulatory information

Safety, health and environmental regulations specific for the product in question

Mexico. Hazard identification guidance list (NOM-018-STPS)

GLICERINA, NIEBLA (CAS 56-81-5) Listed.

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

Not listed.

International regulations

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.

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

Issue date 12-Mar-2015

Revision date 14-Sep-2015

Version # 02

List of abbreviations 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.

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

Hazard identification: Other hazards which do not result in classification
Other information: Disclaimer

Manufacturer information

HP
1501 Page Mill Road
Palo Alto, CA 94304-1112 US
Direct 1-650-857-5020

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 |