$C2P06Series [C] [3]-SDS_US-English-14.pdf$

 $C2P06Series [Y] [3]-SDS_US-English-14.pdf$

 $C2P06Series[M][3]-SDS_US-English-14.pdf$

SAFETY DATA SHEET

1. Identification

Product identifier C2P06Series[C][3] Other means of identification Not available. Recommended use Inkjet printing **Recommended restrictions** None known.

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 Not classified. **Health hazards** Not classified. **Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements

None. **Hazard symbol** Signal word None.

Not available. **Hazard statement**

Precautionary statement

Prevention Not available. Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

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 name	Common name and synonyms	CAS number	%
1,5-pentanediol		111-29-5	< 10
Ethyl alkyldiol		Proprietary	< 10
Copper phthalocyanine direct dye salt		Proprietary	< 5
Metal nitrate # 2		Proprietary	< 2.5

Material name: C2P06Series[C][3] SDS US

12123 Version #: 03 Revision date: 07-Oct-2014 Issue date: 30-Aug-2014

Composition comments This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

4. First-aid measures

Inhalation Remove to fresh air. If symptoms persist, get medical attention.

Skin contact Wash affected areas thoroughly with mild soap and water. 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.

Ingestion If ingestion of a large amount does occur, seek medical attention.

Most important

symptoms/effects, acute and

delayed

Not available.

5. Fire-fighting measures

Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for

firefighters

Not available.

Specific methods None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up

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.

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 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

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values Exposure guidelines

No biological exposure limits noted for the ingredient(s). Exposure limits have not been established for this product.

Appropriate engineering

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Not available. Eye/face protection

Skin protection

Hand protection Not available. Not available. Other **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

Material name: C2P06Series[C][3] SDS US **Physical state** Liquid. Color Cyan

Odor Not available. **Odor threshold** Not available. 8 - 8.4 pН

Melting point/freezing point Not available. Initial boiling point and Not determined

boiling range

Flash point > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup

Evaporation rate Not determined Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower Not available.

(%)

Flammability limit -

Not available.

upper (%)

Explosive limit - lower

Not available.

(%)

Explosive limit - upper

(%)

Not available.

Vapor pressure Not determined

Solubility(ies)

Solubility (water) Soluble in water **Partition coefficient** Not available. (n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity** <= 2 cp

Other information For other VOC regulatory data/information see Section 15.

VOC (Weight %) < 156 g/L

10. Stability and reactivity

Not available. Reactivity

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 Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

products dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics 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 Based on available data, the classification criteria are not met.

irritation

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.

Material name: C2P06Series[C][3] SDS US 12123 Version #: 03 Revision date: 07-Oct-2014 Issue date: 30-Aug-2014

Germ cell mutagenicityBased on available data, the classification criteria are not met. **Carcinogenicity**Based on available data, the classification criteria are not met.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityBased on available data, the classification criteria are not met. **Specific target organ toxicity**Based on available data, the classification criteria are not met.

- single exposure

Specific target organ toxicity Based on available data, the classification criteria are not met.

- repeated exposure

Components

Aspiration hazardBased on available data, the classification criteria are not met. **Further information**Complete toxicity data are not available for this specific formulation

Species

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

Test Results

12. Ecological information

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

Ecotoxicity

Ethyl alkyldiol (CAS Proprietary) **Aquatic** EC50 Crustacea Daphnia 102, 48 Hours 1000, 96 Hours Fish LC50 Fish Persistence and degradability Not available. **Bioaccumulative potential** Not available. 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.

Hazardous waste code Not regulated.

Waste from residues / Not available.
unused products

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.

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory information

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

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Material name: C2P06Series[C][3]

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical

SARA 313 (TRI reporting)

Not regulated.

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 N

t Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

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

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

Other information VOC content (less water, less exempt compounds) = < 574 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

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
 30-Aug-2014

 Revision date
 07-Oct-2014

Version # 03

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 Hewlett-Packard Company

3000 Hanover Street

Palo Alto, California 94304-1112 US

(Direct) 1-503-494-7199

(Toll-free within the US) 1-800-457-4209

Material name: C2P06Series[C][3] sps us

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

Material name: C2P06Series[C][3] sps us

SAFETY DATA SHEET

1. Identification

Product identifierC2P06Series[Y][3]Other means of identificationNot available.Recommended useInkjet printingRecommended restrictionsNone known.

Company identificationHewlett-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 Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement Not available.

Precautionary statement

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Hazard(s) not otherwise

classified (HNOC)

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 name	Common name and synonyms	CAS number	%
1,5-pentanediol		111-29-5	< 10
Ethyl alkyldiol		Proprietary	< 10
2-pyrrolidone		616-45-5	< 7.5
Substituted naphthalenesulfonate salt # 13		Proprietary	< 7.5
Metal nitrate # 2		Proprietary	< 2.5

Material name: C2P06Series[Y][3]

Composition comments This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

4. First-aid measures

Inhalation Remove to fresh air. If symptoms persist, get medical attention.

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Eye contactDo 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 ingestion of a large amount does occur, seek medical attention.

Most important

Not available.

symptoms/effects, acute and

delayed

5. Fire-fighting measures

Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for

Not available.

and precautions firefighters

Specific methods None established.

6. Accidental release measures

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

Methods and materials for containment and cleaning up

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.

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 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

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values Exposure guidelines No biological exposure limits noted for the ingredient(s). Exposure limits have not been established for this product.

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

Material name: C2P06Series[Y][3]

Physical state Liquid. Color Yellow

Odor Not available. **Odor threshold** Not available.

8 - 8.4 pН

Melting point/freezing point Not available. Initial boiling point and Not determined

boiling range

Flash point > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup

Evaporation rate Not determined Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower Not available.

(%)

Flammability limit -

Not available.

upper (%)

Explosive limit - lower

Not available.

(%)

Explosive limit - upper

(%)

Not available.

Vapor pressure Not determined

Solubility(ies)

Solubility (water) Soluble in water **Partition coefficient** Not available. (n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity** <= 2 cp

Other information For other VOC regulatory data/information see Section 15.

VOC (Weight %) < 155 g/L

10. Stability and reactivity

Not available. Reactivity

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 Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

products dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics 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.

Material name: C2P06Series[Y][3] SDS US Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

- single exposure

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. **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.

Test Results Components **Species**

2-pyrrolidone (CAS 616-45-5)

Acute

Oral

LD50 6500 mg/kg Guinea pig Rat 6500 mg/kg

12. Ecological information

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

Ecotoxicity

Test Results Components **Species** 2-pyrrolidone (CAS 616-45-5) **Aquatic** EC50 Water flea (Daphnia pulex) Crustacea 13.21 mg/l, 48 hours Ethyl alkyldiol (CAS Proprietary) **Aquatic** Crustacea EC50 Daphnia 102, 48 Hours Fish LC50 Fish 1000, 96 Hours

Persistence and degradability Not available. **Bioaccumulative potential** Not available.

Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85

Mobility in soil Not available. Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose of waste material according to Local, State, Federal, and Provincial Environmental

Regulations. Do not allow this material to drain into sewers/water supplies.

Not regulated. Hazardous waste code Waste from residues / Not available.

unused products

Not available. Contaminated packaging

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Material name: C2P06Series[Y][3] 4/6

15. Regulatory information

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

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical

SARA 313 (TRI reporting)

Not regulated.

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 Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5)

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

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

2-pyrrolidone (CAS 616-45-5)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

Other information VOC content (less water, less exempt compounds) = < 527 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

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 30-Aug-2014 **Revision date** 07-Oct-2014

Version # 03

Material name: C2P06Series[Y][3]

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 Hewlett-Packard Company

3000 Hanover Street

Palo Alto, California 94304-1112 US

(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

Material name: C2P06Series[Y][3] sps us

SAFETY DATA SHEET

1. Identification

Product identifier C2P06Series[M][3] Other means of identification Not available. Recommended use Inkjet printing **Recommended restrictions** None known.

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 Not classified. **Health hazards** Not classified. **Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements

None. **Hazard symbol** Signal word None.

Not available. **Hazard statement**

Precautionary statement

Prevention Not available. Response Not available. Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

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 name	Common name and synonyms	CAS number	%
1,5-pentanediol		111-29-5	< 10
Ethyl alkyldiol		Proprietary	< 10
2-pyrrolidone		616-45-5	< 7.5
Polycyclic sulfonic acid, TMA salt		Proprietary	< 7.5
Alkyldiol ethoxylate		Proprietary	< 2.5

Material name: C2P06Series[M][3] SDS US 1/6

% **CAS** number **Chemical name** Common name and synonyms Metal nitrate # 2 Proprietary < 2.5

Composition comments This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

4. First-aid measures

Inhalation Remove to fresh air. If symptoms persist, get medical attention.

Skin contact Wash affected areas thoroughly with mild soap and water. 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.

Ingestion If ingestion of a large amount does occur, seek medical attention.

Most important

Not available. symptoms/effects, acute and

delayed

5. Fire-fighting measures

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

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

Not available.

and precautions for

Specific methods

firefighters

None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up 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.

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 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

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s). **Exposure guidelines** Exposure limits have not been established for this product.

Appropriate engineering

controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

Not available. **Hand protection** Not available. Other **Respiratory protection** Not available. Thermal hazards Not available.

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

considerations

Material name: C2P06Series[M][3] SDS US

9. Physical and chemical properties

Appearance

Physical state Liquid. Color Magenta Odor Not available. **Odor threshold** Not available. 8 - 8.4 Melting point/freezing point Not available.

Initial boiling point and

Not determined

boiling range

> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup Flash point

Evaporation rate Not determined Flammability (solid, gas) Not available. 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

Not determined

Solubility(ies)

Solubility (water) Soluble in water Not available. **Partition coefficient** (n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature Viscosity** <= 2 cp

Other information For other VOC regulatory data/information see Section 15.

VOC (Weight %) < 156 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 Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

products dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics 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 Based on available data, the classification criteria are not met.

irritation

Material name: C2P06Series[M][3] SDS US 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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

- single exposure

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. **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.

Components **Species Test Results**

2-pyrrolidone (CAS 616-45-5)

Acute Oral

LD50 Guinea pig 6500 mg/kg

Rat 6500 mg/kg

12. Ecological information

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

Ecotoxicity

Test Results Components Species 2-pyrrolidone (CAS 616-45-5) Aquatic EC50 Crustacea Water flea (Daphnia pulex) 13.21 mg/l, 48 hours Ethyl alkyldiol (CAS Proprietary) **Aquatic** Crustacea EC50 Daphnia 102, 48 Hours Fish LC50 Fish 1000, 96 Hours

Persistence and degradability Not available. **Bioaccumulative potential** Not available.

Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85

Mobility in soil Not available. Not available. Other adverse effects

13. Disposal considerations

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

Hazardous waste code Not regulated. Waste from residues / Not available. unused products

Contaminated packaging Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

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IMDG

Not regulated as dangerous goods.

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory information

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

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical

SARA 313 (TRI reporting)

Not regulated.

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 Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5)

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

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

2-pyrrolidone (CAS 616-45-5)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

Other information VOC content (less water, less exempt compounds) = < 533 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

Regulatory informationAll 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.

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

Issue date30-Aug-2014Revision date07-Oct-2014

Version # 03

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may not meet regulatory requirements in other countries.

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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

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