

SAFETY DATA SHEET

1. Identification

Product identifier51629 SeriesOther means of identificationNot available.Recommended useInkjet printingRecommended restrictionsNone known.

Company identification

1501 Page Mill Road Palo Alto, CA 94304-1112

United States

Telephone 650-857-5020

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(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)

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.

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present

this carcinogenic risk. None of the other ingredients in this preparation are classified as

carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

Supplemental information This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------|--------------------------|------------|-------|
| Water | | 7732-18-5 | 75-85 |
| 2-pyrrolidone | | 616-45-5 | <15 |

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| Chemical name | Common name and synonyms | CAS number | % |
|-------------------|--------------------------|------------|------|
| Carbon black | | 1333-86-4 | <5 |
| Isopropyl alcohol | | 67-63-0 | <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).

Carbon black is present only in a bound form in this preparation.

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

Most important

symptoms/effects, acute and

delayed

Contact with skin and eyes may result in irritation.

5. Fire-fighting measures

NotesNo ignition, sustained combustion or flashing detected using the Sustained Combustibility Test

(method in US 49CFR173, Appendix H).

Suitable extinguishing media

Unsuitable extinguishing

media

CO2, water, dry chemical, or foam None known.

Specific hazards arising from Not a

the chemical

firefighters

Not applicable.

Special protective equipment

and precautions for

•

None established.

Specific methods None established.

General fire hazards Contact with skin and eyes may result in irritation.

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. Slowly vacuum or sweep the

material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations.

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 Avo

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

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Туре | Value | |
|------------------------------------|------|-----------|--|
| Carbon black (CAS 1333-86-4) | PEL | 3.5 mg/m3 | |
| Isopropyl alcohol (CAS 67-63-0) | PEL | 980 mg/m3 | |

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US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Туре | Value | |
|---|-----------------|---------------------------------|---------------------|
| | | 400 ppm | |
| US. ACGIH Threshold Limit Va Components | lues Type | Value | Form |
| | туре | | |
| Carbon black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |
| Isopropyl alcohol (CAS 67-63-0) | STEL | 400 ppm | |
| , | TWA | 200 ppm | |
| US. NIOSH: Pocket Guide to C | hemical Hazards | | |
| Components | Туре | Value | |
| Carbon black (CAS 1333-86-4) | TWA | 0.1 mg/m3 | |
| Isopropyl alcohol (CAS 67-63-0) | STEL | 1225 mg/m3 | |
| • | TWA | 500 ppm 980 mg/m3 400 ppm | |

Biological limit values

| ACGIH Biologic | cal Exposure | Indices |
|----------------|--------------|----------------|
|----------------|--------------|----------------|

| Value | Determinant | Specimen | Sampling Time |
|---------|-------------|-------------------|----------------------------|
| 40 mg/l | Acetone | Urine | * |
| | Value | Value Determinant | Value Determinant Specimen |

^{* -} For sampling details, please see the source document.

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** 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 Liquid. Color Black. Odor Not available. **Odor threshold** Not available.

7.8 - 8.4Melting point/freezing point Not available. Initial boiling point and 200 °F (93.33 °C)

boiling range Flash point

131.0 - 136.0 °F (55.0 - 57.8 °C)

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

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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

Partition coefficient Not determined (n-octanol/water)

Auto-ignition temperature Decomposition temperature

Not available.

Not available.

Viscosity > 2 cp

Other information

Specific gravity 1 - 1.2

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

VOC (Weight %) < 116.6 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.

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

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

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

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

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

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 | 5-5) | |
| Acute | | |
| Oral | | |
| LD50 | Guinea pig | 6500 mg/kg |
| | Rat | 6500 mg/kg |
| Carbon black (CAS 1333-8 | 6-4) | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 8000 mg/kg |
| Isopropyl alcohol (CAS 67- | -63-0) | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 12800 mg/kg |
| Oral | | |
| LD50 | Dog | 4797 mg/kg |
| | Mouse | 3600 mg/kg |
| | Rabbit | 5.03 g/kg |
| | Rat | 4.7 g/kg |
| Other | | |
| LD50 | Mouse | 1509 mg/kg |
| | Rat | 1099 mg/kg |
| | | 5. 3 |

12. Ecological information

Aquatic toxicity Not expected to be harmful to aquatic organisms.

Ecotoxicity

Further information

| Product | | Species | Test Results |
|------------------------|------------|--------------------------------------|-----------------------|
| 51629 Series (CAS Mix | kture) | | |
| Aquatic | | | |
| Acute | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | > 750 mg/l, 96 hours |
| Components | | Species | Test Results |
| 2-pyrrolidone (CAS 61 | 6-45-5) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) | 13.21 mg/l, 48 hours |
| Isopropyl alcohol (CAS | 6 67-63-0) | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | > 1400 mg/l, 96 hours |
| Acute | | | |
| Algae | EC50 | Algae | > 1000 mg/l, 72 hours |
| Crustacea | EC50 | Daphnia | 13299 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | <u>-</u> ., |
| | | | |

Persistence and degradability No data is available on the degradability of this product.

Material name: 51629 Series

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85 Isopropyl alcohol 0.05

Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

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.

Contaminated packaging No special precautions.

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.

No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous

Goods Regulations Section 3.3.1.3.

No ignition, sustained combustion or flashing detected using the sustained combustibility test

(method in US CFR173, Appendix H).

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

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Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5) Carbon black (CAS 1333-86-4) Isopropyl alcohol (CAS 67-63-0)

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

Carbon black (CAS 1333-86-4) Isopropyl alcohol (CAS 67-63-0)

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

2-pyrrolidone (CAS 616-45-5) Carbon black (CAS 1333-86-4) Isopropyl alcohol (CAS 67-63-0)

US. Rhode Island RTK

Isopropyl alcohol (CAS 67-63-0)

US. California Proposition 65

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CARBON BLACK (AIRBORNE, UNBOUND PARTICLES Listed: February 21, 2003 OF RESPIRABLE SIZE [<= 10 MICROMETERS]) (CAS

1333-86-4)

Other information VOC content (less water, less exempt compounds) = <592.5 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 date01-Apr-2015Revision date14-Aug-2015

Version # 02

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.

Revision Information 1. Product and Company Identification: Alternate Trade Names

Other information, including date of preparation or last revision: Disclaimer

Manufacturer information HP

1501 Page Mill Road

Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

Material name: 51629 Series 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

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