



SAFETY DATA SHEET

1. Identification (company name & product)

Product name CP514 Series
Synonyms HP Scitex FB221 Black Ink
Recommended use and Limitations on use
Recommended use Inkjet printing
Revision date 06-Dec-2013
Company identification HP RIO NEGRO - SAP
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2. Hazards identification

Classification Xi;R36/37/38, R52/53
Physical hazards Not classified as a physical hazard.
Health hazards Irritating to eyes, respiratory system and skin.
Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Other hazards Diphenyl (2,4,6-trimethylbenzoyl) phosphineoxide - In animal testing, risk of impaired fertility was shown only after repeated ingestion of very high doses of this substance.

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.

Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical property

Chemical name	CAS Number	Concentration (%)
Ethoxylated Trimethylolpropane Triacrylate	28961-43-5	<25
Neopentylglycol propoxylate diacrylate	84170-74-1	<25
Acrylate Ester	Proprietary	<20
N-vinylcaprolactam	2235-00-9	<20
Propiophenone derivative	Proprietary	<5
Acrylated Oligoamine Resin	Proprietary	<2.5
Black pigment	Proprietary	<2.5
Diphenyl (2,4,6-trimethylbenzoyl) phosphine	75980-60-8	<2.5
Photo Initiator	Proprietary	<2.5

	CAS Number	Concentration (%)
Fragrance	Proprietary	<1

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

4. First aid measures

First aid measures for different exposure routes

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 the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.

Personal protection for first-aid responders Not available.

Notes to physician Not available.

5. Fire-fighting measures

Flash point	> 149.00 °F (> 65.00 °C) Closed Cup
Extinguishing media	Dry powder. Carbon dioxide (CO2). Water may be ineffective.
Extinguishing media to avoid	Water.
Specific hazards during fire fighting	Not available.
Special fire fighting procedures	Not available.
Protection of fire-fighters	Avoid runoff into storm sewers and ditches which lead to waterways.
Specific hazards arising from combustion	Not available.

6. Accidental release measures

Personal precautions	Wear appropriate personal protective equipment. Do not touch or walk through spilled material.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
Emergency procedures	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
Spill cleanup methods	Not available.

7. Handling and storage

Handling	
Precautions	Not available.
Safe handling advice	Not available.
Storage	
Technical measures	Not available.
Suitable storage conditions	Not available.
Incompatible materials	Not available.

8. Exposure controls/personal protection

Exposure limits

Brazil.OELs. (NR - 15, Annex 11) Hazardous Chemical Agents for which Occupational Exposure and Inspection Limits have been Established

Components	Type	Value
Black pigment (CAS Proprietary)	TWA	3.5 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Black pigment (CAS Proprietary)	TWA	3 mg/m ³	Inhalable fraction.

Engineering measures Not available.

Personal protective equipment

Respiratory protection Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Not available.

Eye protection Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

Skin and body protection Wear appropriate chemical resistant gloves.
 Wear appropriate chemical resistant clothing.

Thermal hazards Not available.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Do not get this material in your eyes, on your skin, or on your clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Keep away from food and drink.

9. Physical and chemical properties

Appearance Not available.

Physical state Liquid.

Form Liquid.

Color Black.

Odor Characteristic.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Boiling point, initial boiling point, and boiling range Not available.

Flash point > 149.00 °F (> 65.00 °C) Closed Cup

Auto-ignition temperature 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 available.

Evaporation rate Not available.

Relative density Not available.

Solubility Not available.

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

Decomposition temperature Not available.

Viscosity Not available.

Other data

VOC (Weight %) < 95 g/L

10. Stability and reactivity

Stability Stable under normal storage conditions.

Reactivity Not available.

Conditions to avoid	Exposure to sunlight.
Incompatible materials	Incompatible with strong bases and oxidizing agents. alkaline metals
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.

11. Toxicological information

Serious eye damage/eye irritation	Not available.
Carcinogenicity	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.

ACGIH Carcinogens

CARBON BLACK, INHALABLE FRACTION (CAS Proprietary) A3 Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Black pigment (CAS Proprietary) 2B Possibly carcinogenic to humans.

Other information	Complete toxicity data are not available for this specific formulation
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12. Ecological information

Aquatic toxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Ecotoxicological data	No toxicity data noted for the ingredient(s).
Ecotoxicity	Not available.
Persistence and degradability	Not available.
Bioaccumulation	Not available.
Mobility in soil	Not available.
Other hazardous effects	Not available.

13. Disposal considerations

Residual waste	Not available.
Contaminated packaging	Not available.
Local disposal regulations	Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.

14. Transport information

International regulations

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory information

Applicable regulations

Montreal Protocol

Not applicable.

Rotterdam Convention

Not applicable.

Stockholm Convention

Not applicable.

Labeling

Contains

Acrylate Ester, Acrylated Oligoamine Resin, Black pigment, Diphenyl (2,4,6-trimethylbenzoyl) phosphine, Ethoxylated Trimethylolpropane Triacrylate, Fragrance, Neopentylglycol propoxylate diacrylate, N-vinylcaprolactam, Photo Initiator, Propiophenone derivative

Symbol(s)



Irritant

Labelling

R-phrases(s)

R36/37/38 Irritating to eyes, respiratory system and skin.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S24/25 Avoid contact with skin and eyes.
S51 Use only in well-ventilated areas.
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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

Recommended use and Limitations on use

Recommended use Inkjet printing

Limitations on use Not available.

List of abbreviations Not available.

References Not available.

Disclaimer

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Manufacturer information

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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