



# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name or designation of the mixture CP514 Series  
 Registration number -  
 Synonyms HP Scitex FB221 Black Ink  
 Issue date 05-Sep-2013  
 Version number 03  
 Revision date 28-Jul-2016  
 Supersedes date 06-Dec-2013

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Inkjet printing  
 Uses advised against None known.  
 Company identification HP Belgium BVBA  
 Hermeslaan 1B, Floor B1  
 Diegem, Belgium 1831  
 Telephone 32 2 729 71 11  
 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  
 Emergency numbe +32 (0) 70245245

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 as amended

#### Health hazards

Acute toxicity, oral	Category 4	
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.
Carcinogenicity	Category 2	
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

#### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 1-vinylhexahydro-2H-azepin-2-one, 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one, Acrylate Ester, Acrylate ester, Acrylated Oligoamine Resin, Black pigment, Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide, Fragrance, Neopentylglycol propoxylate diacrylate, Photo Initiator

#### Hazard pictograms



Signal word Danger

## Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H360	May damage fertility.
H360	May damage the unborn child.
H335	May cause respiratory irritation.
H373	May cause damage to organs (liver, nose) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

## Precautionary statements

### Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
Do not breathe fume/gas/mist/vapors/spray.  
P271 - Use only outdoors or in a well-ventilated area.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P264 - Wash hands thoroughly after handling.  
P273 - Avoid release to the environment.

### Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 - If eye irritation persists: Get medical advice/attention.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P308 + P313 - IF exposed or concerned: Get medical attention/advice.  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 - Call a POISON CENTER/doctor/physician if you feel unwell.  
P362 - Take off contaminated clothing and wash before reuse.

### Storage

P405 - Store locked up.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.  
None.

## Supplemental label information

### 2.3. 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.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Acrylate ester	<25	Proprietary	-	-	
<b>Classification:</b>	Skin Sens. 1;H317, Eye Irrit. 2;H319				
Neopentylglycol propoxylate diacrylate	<25	84170-74-1	01-2119970213-43-XXXX	-	
<b>Classification:</b>	Skin Sens. 1B;H317, Aquatic Chronic 2;H411				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
1-vinylhexahydro-2H-azepin-2-one	<20	2235-00-9 218-787-6	-	-	
<b>Classification:</b>	Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Sens. 1B;H317, Eye Irrit. 2;H319, STOT RE 1;H372				
Acrylate Ester	<20	Proprietary	-	-	
<b>Classification:</b>	Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Chronic 2;H411				
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	<5	71868-10-5 400-600-6	-	606-041-00-6	
<b>Classification:</b>	Acute Tox. 4;H302, Repr. 1B;H360FD, Aquatic Chronic 2;H411				
Acrylated Oligoamine Resin	<2.5	Proprietary	-	-	
<b>Classification:</b>	Skin Irrit. 2;H315, Eye Irrit. 2;H319				
Black pigment	<2.5	Proprietary	01-2119384822-32-XXXX	-	
<b>Classification:</b>	-				
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	<2.5	75980-60-8 278-355-8	-	015-203-00-X	
<b>Classification:</b>	Skin Sens. 1B;H317, Repr. 2;H361f, Aquatic Chronic 2;H411				
Photo Initiator	<2.5	Proprietary	-	-	
<b>Classification:</b>	-				
Fragrance	<1	Proprietary	-	-	
<b>Classification:</b>	-				

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

## SECTION 4: First aid measures

**General information** Not available.

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

**4.2. Most important symptoms and effects, both acute and delayed** Not available.

**4.3. Indication of any immediate medical attention and special treatment needed** Not available.

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## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Not available.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry powder. Carbon dioxide (CO <sub>2</sub> ). Water may be ineffective.
<b>Unsuitable extinguishing media</b>	Water.
<b>5.2. Special hazards arising from the substance or mixture</b>	Not available.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Avoid runoff into storm sewers and ditches which lead to waterways.
<b>Special fire fighting procedures</b>	Not available.

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## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Wear appropriate personal protective equipment. Do not touch or walk through spilled material.
<b>For emergency responders</b>	Not available.
<b>6.2. Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
<b>6.3. Methods and material for containment and cleaning up</b>	Not available.
<b>6.4. Reference to other sections</b>	Not available.

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## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Avoid contact with skin, eyes and clothing.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Keep away from excessive heat or cold. Do not store in direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition.
<b>7.3. Specific end use(s)</b>	Not available.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Belgium. Exposure Limit Values. Components

	Type	Value
Black pigment (CAS Proprietary)	TWA	3.5 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Not available.

#### Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
1-vinylhexahydro-2H-azepin-2-one (CAS 2235-00-9)	Workers	Dermal	0.7 mg/kg	Systemic long term
		Inhalation	4.9 mg/m <sup>3</sup>	Systemic long term
		Inhalation	0.17 mg/m <sup>3</sup>	Local long term
Acrylate ester (CAS Proprietary)	Workers	Dermal	0.8 mg/kg	Systemic long term
		Inhalation	16.2 mg/m <sup>3</sup>	Systemic short term
Black pigment (CAS Proprietary)	Consumers	Inhalation	1.75 mg/m <sup>3</sup>	Local long term
		Inhalation	0.06 mg/m <sup>3</sup>	Systemic long term
		Workers	Inhalation	2 mg/m <sup>3</sup>
		Inhalation	1 mg/m <sup>3</sup>	Systemic long term

Components	Type	Route	Value	Form
Neopentylglycol propoxylate diacrylate (CAS 84170-74-1)	Workers	Dermal	3.33 mg/kg	Systemic long term
		Inhalation	11.75 mg/m3	Systemic long term

#### Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
1-vinylhexahydro-2H-azepin-2-one (CAS 2235-00-9)	Not applicable	Freshwater	0.1 mg/l	
		Intermittant	1 mg/l	Releases
		Marine water	0.01 mg/l	
		Sediment	0.829 mg/kg	Freshwater
		Sediment	0.0829 mg/kg	Marine water
		Soil	0.107 mg/kg	
		STP	262 mg/l	Sewage Treatment Plant
		STP	262 mg/l	Sewage Treatment Plant
Acrylate ester (CAS Proprietary)	Not applicable	Freshwater	0.00195 mg/l	
		Intermittant	0.0195 mg/l	Releases
		Marine water	0.000195 mg/l	
		Sediment	0.0082 mg/kg	Freshwater
		Sediment	0.00082 mg/kg	Marine water
		Soil	0.00587 mg/kg	
		STP	10 mg/l	Sewage Treatment Plant
		STP	10 mg/l	Sewage Treatment Plant
Black pigment (CAS Proprietary)	Not applicable	Freshwater	5 mg/l	
		Marine water	5 mg/l	
Neopentylglycol propoxylate diacrylate (CAS 84170-74-1)	Not applicable	Freshwater	0.0027 mg/l	
		Intermittant	0.027 mg/l	Releases
		Marine water	0.00027 mg/l	
		Sediment	0.188 mg/kg	Freshwater
		Sediment	0.018 mg/kg	Marine water
		Soil	0.036 mg/kg	
		STP	0.2 mg/l	Sewage Treatment Plant
		STP	0.2 mg/l	Sewage Treatment Plant

## 8.2. Exposure controls

**Appropriate engineering controls** Not available.

### Individual protection measures, such as personal protective equipment

**General information** Not available.

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

#### Skin protection

- **Hand protection** Wear appropriate chemical resistant gloves.

- **Other** Wear appropriate chemical resistant clothing.

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

**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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state** Liquid.

**Color** Black.

**Odor** Characteristic.

**Odor threshold** Not available.

**pH** Not applicable.

**Melting point/freezing point** Not available.

<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 149.0 °F (> 65.0 °C) Closed Cup
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.
<b>9.2. Other information</b>	No relevant additional information available.
<b>VOC (Weight %)</b>	< 95 g/L

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## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Not available.
<b>10.2. Chemical stability</b>	Stable under normal storage conditions.
<b>10.3. Possibility of hazardous reactions</b>	Hazardous polymerization can occur with decreased inhibitor content.
<b>10.4. Conditions to avoid</b>	Exposure to sunlight.
<b>10.5. Incompatible materials</b>	Incompatible with strong bases and oxidizing agents. alkaline metals
<b>10.6. Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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## SECTION 11: Toxicological information

<b>General information</b>	Not available.
<b>11.1. Information on toxicological effects</b>	
<b>Skin corrosion/irritation</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Not available.
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	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.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Black pigment (CAS Proprietary)	2B Possibly carcinogenic to humans.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.

Components	Species	Test Results
Black pigment (CAS Proprietary)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 8000 mg/kg
<b>Mixture versus substance information</b>	Not available.	
<b>Other information</b>	Complete toxicity data are not available for this specific formulation	

## SECTION 12: Ecological information

<b>Aquatic toxicity</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>12.1. Toxicity</b>	No toxicity data noted for the ingredient(s).
<b>12.2. Persistence and degradability</b>	Not available.
<b>12.3. Bioaccumulative potential</b>	Not available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	Not available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>EU waste code</b>	Not available.
<b>Disposal methods/information</b>	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.

## SECTION 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.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

##### Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

##### Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

##### Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

##### Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**

Not listed.

#### **Authorizations**

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization**

Not listed.

#### **Other EU regulations**

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**

Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (CAS 71868-10-5)

Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide (CAS 75980-60-8)

**Directive 94/33/EC on the protection of young people at work**

Not regulated.

#### **Other 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.

#### **National regulations**

Not available.

#### **15.2. Chemical safety assessment**

See attached SUMI or GEIS document, if applicable.

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### **SECTION 16: Other information**

#### **References**

Not available.

#### **Information on evaluation method leading to the classification of mixture**

Not available.

#### **Revision information**

Composition/Information on Ingredients  
SECTION 16: Other information: Disclaimer

#### **Training information**

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.

#### **Issue date**

05-Sep-2013



## Explanation of abbreviations

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

### Manufacturer information

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(Direct) +972 (9) 892-4628

# Safe Use of Mixture Information (SUMI)

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## UV digital printing inks: UV01 \*English\*

### Disclaimer

*This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.  
The REACH registration number(s), where applicable, completes an extended product SDS.*

### Operational conditions

<b>Maximum duration</b>	Up to 8 hours per day
<b>Frequency of exposure</b>	< 240 days per year
<b>Process conditions</b>	Covers use at ambient temperatures. Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace. Keep emissions below the occupational exposure limits of the ingredients specified in section 8 of the SDS. Avoid direct contact. Regular cleaning of equipment and work area. Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions foll

### Risk management measures

<b>Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation</b>	<p>Wear safety glasses with side shields (or goggles), if splashing is possible. Wear appropriate chemical resistant gloves: see section 8 of the SDS. Wear appropriate chemical resistant clothing. Eye wash fountain and emergency showers are recommended. Avoid breathing mist/vapours. Avoid contact with skin, eyes and clothing. Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.</p> <div style="display: flex; justify-content: space-around; align-items: center;">     </div>
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### Good practice advice

<p>Use personal protective equipment as required. Wash hands before breaks and after work. Keep good industrial hygiene and safety practice. Use only with adequate ventilation. Do no eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store at room temperature.</p>	 
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### Environmental measures

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 appropriately licenced waste contractor.

### Use descriptors

- IS-Use at industrial sites
- PW-Widespread use by professional workers
- SU7-Printing and reproduction media
- PC18-Inks and Toners
- PROC1-Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
- PROC2-Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
- PROC3- Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
- PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities
- ERC5-Use at industrial site leading to inclusion into/onto article
- ERC8c-Widespread use leading to inclusion into/onto article (indoor)

### Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture is provided.  
The classification of the mixture is based on the individual ingredients and their concentration within the mixture.  
All ingredients contributing to the classification are stated in Section 3 of the SDS.  
Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.  
The product may contain sensitizing ingredients that may cause allergic reaction to certain people.  
Section 2 of the SDS states these ingredients where applicable.  
The product is classified as toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.