



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 CR917A
Registration number -
Synonyms HP HDR235 Black Scitex Ink
Issue date 31-Aug-2016
Version number 01

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 Inc. UK Limited
Cain Rd., Amen Corner, Pt 2nd Floor (Bldg BRA03)
Bracknell
United Kingdom RG12 1HN

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Health hazards

| | | |
|--|---|--|
| Skin corrosion/irritation | Category 2 | H315 - Causes skin irritation. |
| Serious eye damage/eye irritation | Category 1 | H318 - Causes serious eye damage. |
| Skin sensitization | Category 1 | H317 - May cause an allergic skin reaction. |
| Reproductive toxicity (fertility) | Category 2 | H361f - Suspected of damaging fertility. |
| Specific target organ toxicity - single exposure | Category 3 respiratory tract irritation | H335 - May cause respiratory irritation. |
| Specific target organ toxicity - repeated exposure | Category 1 (liver, respiratory system) | H372 - Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure. |

Environmental hazards

| | | |
|--|------------|---|
| Hazardous to the aquatic environment, long-term aquatic hazard | Category 2 | H411 - Toxic to aquatic life with long lasting effects. |
|--|------------|---|

2.2. Label elements

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

Contains: 1-vinylhexahydro-2H-azepin-2-one, 2-phenoxyethyl acrylate, Acrylated oligoamine resin, Carbon black, Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide, Isobornyl acrylate, Propoxylated glycerol triacrylate, Reaction mass of Decyl acrylate and Octyl acrylate, Urethane acrylate oligomer A, Urethane acrylate oligomer B

Hazard pictograms



Signal word

Danger

Hazard statements

| | |
|-------|--|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H317 | May cause an allergic skin reaction. |
| H361f | Suspected of damaging fertility. |
| H335 | May cause respiratory irritation. |
| H372 | Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P202 - Do not handle until all safety precautions have been read and understood.
P201 - Obtain special instructions before use.
P270 - Do not eat, drink or smoke when using this product.
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.
P310 - Immediately call a POISON CENTER or doctor/physician.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313 - IF exposed or concerned: Get medical attention/advice.
P312 - Call a POISON CENTER/doctor/physician if you feel unwell.
P391 - Collect spillage.
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.

Supplemental label information

None.

2.3. Other hazards

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

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 components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|-------------------------|---|-------------------------|------------------------|-----------|-------|
| 2-phenoxyethyl acrylate | <30 | 48145-04-6 256-360-6 | - | - | |
| Classification: | Skin Sens. 1A;H317, Aquatic Chronic 2;H411 | | | | |
| Isobornyl acrylate | <25 | 5888-33-5 227-561-6 | 01-2119957862-25-XXXX | - | |
| Classification: | Skin Irrit. 2;H315, Skin Sens. 1B;H317, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Acute 1;H400, Aquatic Chronic 1;H410 | | | | |

| 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 | - | - | |
| Classification: | Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Sens. 1B;H317, Eye Irrit. 2;H319, STOT RE 1;H372 | | | | |
| Carbon black | <5 | 1333-86-4 215-609-9 | 01-2119384822-32-XXXX | - | |
| Classification: | - | | | | |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | <5 | 75980-60-8 278-355-8 | - | 015-203-00-X | |
| Classification: | Skin Sens. 1B;H317, Repr. 2;H361f, Aquatic Chronic 2;H411 | | | | |
| Reaction mass of Decyl acrylate and Octyl acrylate | <5 | Not available 911-295-9 | - | - | |
| Classification: | Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Chronic 2;H411 | | | | |
| Urethane acrylate oligomer A | <5 | Proprietary - | - | - | |
| Classification: | Skin Irrit. 2;H315, Eye Irrit. 2;H319 | | | | |
| Urethane acrylate oligomer B | <5 | Proprietary - | - | - | |
| Classification: | Acute Tox. 4;H302, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Dam. 1;H318, Aquatic Chronic 2;H411 | | | | |
| Acrylated oligoamine resin | <2.5 | Proprietary - | - | - | |
| Classification: | Skin Irrit. 2;H315, Eye Irrit. 2;H319 | | | | |
| Propoxylated glycerol triacrylate | <1 | 52408-84-1 500-114-5 | - | - | |
| Classification: | Skin Sens. 1;H317, Eye Irrit. 2;H319 | | | | |

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.

SECTION 5: Firefighting measures

| | |
|---|--|
| General fire hazards | Not available. |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | Dry powder. Carbon dioxide (CO ₂). Water may be ineffective. |
| Unsuitable extinguishing media | Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire. |
| 5.2. Special hazards arising from the substance or mixture | Not available. |
| 5.3. Advice for firefighters | |
| Special protective equipment for firefighters | Not available. |
| Special fire fighting procedures | Avoid runoff into storm sewers and ditches which lead to waterways. |

SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

| | |
|--|---|
| 7.1. Precautions for safe handling | Avoid contact with skin, eyes and clothing. |
| 7.2. Conditions for safe storage, including any incompatibilities | 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. Opaque, high density polyethylene (HDPE) containers are recommended for shipping and storage. |
| 7.3. Specific end use(s) | Not available. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

| Components | Type | Value |
|------------------------------|------|-----------------------|
| Carbon black (CAS 1333-86-4) | TWA | 3.5 mg/m ³ |

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 ³ | Systemic long term |
| | | Inhalation | 0.17 mg/m ³ | Local long term |
| 2-phenoxyethyl acrylate (CAS 48145-04-6) | Industry | Dermal | 1.5 mg/kg/day | |
| | | Inhalation | 10 mg/m ³ | |
| | Workers | Dermal | 1.5 mg/kg | Systemic long term |
| | | Inhalation | 77 mg/m ³ | Local long term |
| | | Inhalation | 10 mg/m ³ | Systemic long term |
| Carbon black (CAS 1333-86-4) | Consumers | Inhalation | 1.75 mg/m ³ | Local long term |

| Components | Type | Route | Value | Form |
|--|---------|------------|-------------------------|--------------------|
| Isobornyl acrylate (CAS 5888-33-5) Propoxylated glycerol triacrylate (CAS 52408-84-1) | Workers | Inhalation | 0.06 mg/m ³ | Systemic long term |
| | | Inhalation | 2 mg/m ³ | Local long term |
| | | Inhalation | 1 mg/m ³ | Systemic long term |
| | Workers | Dermal | 1.39 mg/kg bw/d | Systemic long term |
| | Workers | Dermal | 1.92 mg/kg | Systemic long term |
| | | Inhalation | 16.22 mg/m ³ | 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 | | |
| | | 2-phenoxyethyl acrylate (CAS 48145-04-6) | Not applicable | Freshwater | 0.002 mg/l | |
| | | | | Intermittant | 0.0121 mg/l | Releases |
| | | | | Marine water | 0.0002 mg/l | |
| Sediment | 0.02 mg/kg | | | Freshwater | | |
| Sediment | 0.002 mg/kg | | | Marine water | | |
| Soil | 0.006 mg/kg | | | | | |
| STP | 1.77 mg/l | | | Sewage Treatment Plant | | |
| Carbon black (CAS 1333-86-4) | Not applicable | | | Freshwater | 5 mg/l | |
| | | | | Marine water | 5 mg/l | |
| Isobornyl acrylate (CAS 5888-33-5) | Not applicable | | | Freshwater | 0.00092 mg/l | |
| | | Intermittant | 0.00704 mg/l | Releases | | |
| | | Marine water | 0.000092 mg/l | | | |
| | | Sediment | 0.145 mg/kg | Freshwater | | |
| | | Sediment | 0.0145 mg/kg | Marine water | | |
| | | Soil | 0.0285 mg/kg | | | |
| | | STP | 2 mg/l | Sewage Treatment Plant | | |
| | | Propoxylated glycerol triacrylate (CAS 52408-84-1) | Not applicable | Freshwater | 0.00574 mg/l | |
| Intermittant | 0.0574 mg/l | | | Releases | | |
| Marine water | 0.01697 mg/kg | | | | | |
| Sediment | 0.001697 mg/kg | | | Marine water | | |
| Soil | 0.00111 mg/kg | | | | | |
| STP | 10 mg/l | | | Sewage Treatment Plant | | |

Exposure guidelines Exposure limits have not been established for this product.

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. Recommended gloves: Nitrile 6 mil minimum thickness.

- 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.

Environmental exposure controls Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid.

Color Black.

Odor Characteristic.

Odor threshold Not available.

pH Not available.

Initial boiling point and boiling range Not available.

Flash point 240.8 °F (116.0 °C) Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Solubility(ies)

Solubility (water) Not available.

Solubility (other) Not available.

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

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Explosive properties Not available.

Oxidizing properties Not available.

9.2. Other information

VOC (Weight %) 19 g/L Method 24/ASTM D5403-93

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

10.2. Chemical stability Stable under normal storage conditions.

10.3. Possibility of hazardous reactions Hazardous polymerization can occur with decreased inhibitor content.

10.4. Conditions to avoid Exposure to sunlight.

10.5. Incompatible materials Incompatible with strong bases and oxidizing agents. alkaline metals

10.6. Hazardous decomposition products Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

SECTION 11: Toxicological information

General information Not available.

11.1. Information on toxicological effects

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

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

Carbon black (CAS 1333-86-4)

Acute

Oral

LD50

Rat

> 8000 mg/kg

| | |
|--|---|
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/eye irritation | Causes serious eye damage. Caused moderate irritation in rabbit (OECD 405). |
| Respiratory sensitization | Based on available data, the classification criteria are not met. |
| Skin sensitization | May cause sensitization by skin contact. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | 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 toxicity | Suspected of damaging fertility. |
| Specific target organ toxicity - single exposure | May cause irritation to the respiratory system. |
| Specific target organ toxicity - repeated exposure | Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| Other information | Complete toxicity data are not available for this specific formulation |

SECTION 12: Ecological information

| | |
|---|--|
| Aquatic toxicity | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This product has not been tested for ecological effects. |
| 12.1. Toxicity | No toxicity data noted for the ingredient(s). |
| 12.2. Persistence and degradability | Not available. |
| 12.3. Bioaccumulative potential | Not available. |
| Bioconcentration factor (BCF) | Not available. |
| 12.4. Mobility in soil | Not available. |
| 12.5. Results of PBT and vPvB assessment | Not a PBT or vPvB substance or mixture. |
| 12.6. Other adverse effects | Not available. |

SECTION 13: Disposal considerations

| | |
|--------------------------------------|--|
| 13.1. Waste treatment methods | |
| Residual waste | Not available. |
| Contaminated packaging | Not available. |
| EU waste code | Not available. |
| Disposal methods/information | 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 | |
| UN number | UN3082 |
| UN proper shipping name | Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates) |
| Transport hazard class(es) | |
| Class | 9 |
| Subsidiary risk | - |
| Packaging group | III |
| Environmental hazards | |
| Marine pollutant | Yes |
| Special precautions for user | Not available. |

DOT supplemental information DOT Classification only applies to shipments within the US and Puerto Rico.

IATA

UN number UN3082
UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Environmental hazards Yes
Special precautions for user Not available.

IMDG

UN number UN3082
UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates), MARINE POLLUTANT
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Environmental hazards
Marine pollutant Yes
EmS F-A, S-F
Special precautions for user Not available.

ADR

Proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
Hazard class 9
UN number 3082
Packing group III
Marine pollutant Yes

DOT; IATA; IMDG



ADR

Marine pollutant



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.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

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

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.

Other information

This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830.

Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments).

National regulations

Not available.

SECTION 16: Other information

| | |
|--|---|
| References | Not available. |
| Information on evaluation method leading to the classification of mixture | Not available. |
| Issue date | 31-Aug-2016 |
| Revision information | Product and Company Identification: Synonyms Composition / Information on Ingredients: Disclosure Overrides 15. Regulatory Information: United States |
| 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. |
| Manufacturer information | HP Inc. 1501 Page Mill Road Palo Alto, CA 94304-1112 US (Direct) +972 (9) 892-4628 |
| 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 |
| List of abbreviations | Not available. |

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

| | |
|------------------------------|---|
| Maximum duration | Up to 8 hours per day |
| Frequency of exposure | < 240 days per year |
| Process conditions | 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

| | |
|--|--|
| Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation | <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> |
|--|--|

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> |   |
|--|---|

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.