

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/25/2023

Reviewed on 08/25/2023

1 Identification

- **Product identifier** Ink jet printing ink
- **Trade name:** IJC357 UV Ink
- **Product Code(s):**
3010122718 3098C001AA IJC357 UV Ink - Black 2L
1070108991 3098C024AA IJC357 UV Ink - Black 3L
1070121551 5535C001AA IJC357 UV Ink - Black 0,8L
- **Relevant identified uses of the substance or mixture and uses advised against**
The product should not be used for any purpose other than that specified in Section 1
- **Manufacturer/Supplier:**
Fujifilm Speciality Ink Systems Limited
Pysons Road, Broadstairs, Kent. CT10 2LE.
Tel. +44 (0)1843 866668
Canon Canada Inc.
6390 Dixie Road, Mississauga, ON L5T 1P7
Phone: 905-795-1111.
- **Information department:** Product safety department.
- **Emergency telephone number:**
For chemical emergencies only: +1 800 579 7421
CHEMTREC 1-703-741-5500

2 Hazard identification

- **Classification of the substance or mixture**

Skin Irritation - Category 2	H315 Causes skin irritation.
Eye Irritation - Category 2A	H319 Causes serious eye irritation.
Skin Sensitizer - Category 1	H317 May cause an allergic skin reaction.
Carcinogenicity - Category 2	H351 Suspected of causing cancer.
Reproductive Toxicity - Category 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure - Category 3	H335 May cause respiratory irritation.
Specific Target Organ Toxicity - Repeated Exposure - Category 1	H372 Causes damage to the liver and the respiratory system through prolonged or repeated exposure.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**

	
GHS07	GHS08
- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
2-Phenoxyethyl Acrylate
Isobornyl Acrylate
2H-Azepin-2-one, 1-ethanyhexahydro trimethylolpropane triacrylate
Trimethylolpropane formalacrylate
Dipentaerythritol penta/hexa acrylate
Phenol, ethoxylated esters with acrylic acid
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
- **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.

(Contd. on page 2)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/25/2023

Reviewed on 08/25/2023

Trade name: IJC357 UV Ink

(Contd. of page 1)

Suspected of damaging fertility or the unborn child.
 May cause respiratory irritation.
 Causes damage to the liver and the respiratory system through prolonged or repeated exposure.

- **Precautionary statements**

Avoid breathing mist/vapours/spray.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection.
 IF exposed or concerned: Get medical advice/attention.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.

- **WHMIS classification** D2A - Very toxic material causing other toxic effects

3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 48145-04-6 EINECS: 256-360-6	2-Phenoxyethyl Acrylate ----- Reproductive Toxicity - Category 2, H361 Skin Sensitizer - Category 1, H317	10-30% w/w *
CAS: 66492-51-1 EINECS: 266-380-7	Trimethylolpropane formalacrylate ----- Skin Irritation - Category 2, H315; Skin Sensitizer - Category 1, H317	10-30% w/w *
CAS: 2235-00-9 EINECS: 218-787-6	2H-Azepin-2-one, 1-ethanyhexahydro ----- Specific Target Organ Toxicity - Repeated Exposure - Category 1, H372 Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) - Category 4, H312; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	10-30% w/w *
CAS: 5888-33-5 EINECS: 227-561-6	Isobornyl Acrylate ----- Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	7-13% w/w *
CAS: 60506-81-2 EINECS: 262-270-8	Dipentaerythritol penta/hexa acrylate ----- Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	1-5% w/w *
CAS: 56641-05-5 NLP: 500-133-9	Phenol, ethoxylated esters with acrylic acid ----- Skin Sensitizer - Category 1, H317	1-5% w/w *
CAS: 162881-26-7 ELINCS: 423-340-5	Phosphine oxide, phenylbis(2,4,6- trimethylbenzoyl)- ----- Skin Sensitizer - Category 1, H317	1-5% w/w *
CAS: 42978-66-5 EINECS: 256-032-2	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1- ethanediyl)] diacrylate ----- Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	0.1-1% w/w *
CAS: 15625-89-5 EINECS: 239-701-3	trimethylolpropane triacrylate ----- Carcinogenicity - Category 2, H351 Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	0.1-1% w/w *

* Actual concentration ranges are withheld as a trade secret.

- **Additional information**

For the wording of the listed hazard phrases refer to section 16.

CA

(Contd. on page 3)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/25/2023

Reviewed on 08/25/2023

Trade name: IJC357 UV Ink

(Contd. of page 2)

4 First-aid measures

- **Description of first aid measures**
- **After inhalation**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact**
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**



Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. on page 4)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/25/2023

Reviewed on 08/25/2023

Trade name: IJC357 UV Ink

(Contd. of page 3)

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
No special measures required.
- **Information about protection against explosions and fires:**
No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage** Store in accordance with current national regulations.
- **Requirements to be met by storerooms and receptacles:**
Store between 5 - 30°C.
Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/ Personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- **Additional information:**
The instructions and information provided by the manufacturer of the personal protective equipment on use, storage, maintenance and replacement must always be followed.
- **Exposure controls**
- **General protective and hygienic measures**
Store protective clothing separately.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.
- **Breathing equipment:**
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)
In cases of insufficient ventilation use the following respiratory protective device:
Filter A/P2.
- **Protection of hands:**

Type	Rubber			Nitrile		Neoprene
	Single Use	Multi Use	Heavy Duty (Gauntlets)	Single Use	Multi Use	Heavy Duty (Gauntlets)
Preparation Print Shop	X	Y	X	X	Y	X
Solvent Inks	Y	Y	Y	Y	Y	Y
UV Inks	X	X	X	Y	Y	Y
Reclaim	X	X	Y	X	X	Y

Y = recommended X = not recommended

Single use disposable nitrile gloves (short duration exposure of few minutes, or where only splashes likely). Not to be reused when removed.

Minimum 0.4mm thick neoprene or nitrile gloves (longer duration exposure or mechanical handling activities). To be replaced immediately when punctured or degraded.

Heavy duty unlined neoprene gloves (when using solvents). To be replaced immediately when punctured or degraded.

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
The selection of single or multi-use gloves is dependent upon the level of exposure.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Always ensure that gloves are free from

(Contd. on page 5)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/25/2023

Reviewed on 08/25/2023

Trade name: IJC357 UV Ink

(Contd. of page 4)

defects and that they are stored and used correctly.
Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Hands should be inspected on a regular basis for any signs of skin damage or inflammation

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses

- **Body protection:**

Protective work clothing; disposable overalls are preferable.

Acrylates, like any other organic solvent, are skin and/or eye irritants. Since acrylates do not evaporate, they will remain on the skin or clothes for extended periods. This long term exposure, caused by the non volatility, can give rise to dermatitis. It is essential that the measures given above are always followed.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Liquid

Color: Black

- **Odor:** Characteristic

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range: undetermined

Boiling point/Boiling range: undetermined

- **Flash point:** Not applicable

- **Flammability (solid, gaseous)** Not applicable.

- **Auto igniting:** Not applicable

- **Decomposition temperature:** Not determined.

- **Ignition temperature:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

- **Oxidizing properties** Not determined

- **Vapor pressure:** Not determined.

- **Density at 20 °C:** 1.08 g/cm³

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Water:** Not miscible or difficult to mix

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:** Not determined

- **dynamic:** Not determined.

- **kinematic:** Not determined.

- **Solvent content:**

Organic solvents: 0.0 %

- **VOC(EU):** 0.00 %

- **Other information** No further relevant information available.

CA

(Contd. on page 6)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/25/2023

Reviewed on 08/25/2023

Trade name: IJC357 UV Ink

(Contd. of page 5)

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Stable until:** 50°C
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

48145-04-6 2-Phenoxyethyl Acrylate

Dermal	LD50	>2,000 mg/kg (rat)
--------	------	--------------------

2235-00-9 2H-Azepin-2-one, 1-ethanyhexahydro

Oral	LD50	1,860 mg/kg (rat) ((OECD Guideline 401))
------	------	--

Dermal	LD50	>2,000 mg/kg (rat)
--------	------	--------------------

		1,700 mg/kg (rabbit) (OECD Guideline 402)
--	--	---

Inhalative	LC50 8h	>1.6 mg/l (rat)
------------	---------	-----------------

5888-33-5 Isobornyl Acrylate

Oral	LD50	4,350 mg/kg (rat)
------	------	-------------------

162881-26-7 Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-

Oral	LD50	>2,000 mg/kg (rat)
------	------	--------------------

Dermal	LD50	>2,000 mg/kg (rat)
--------	------	--------------------

42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Oral	LD50	6,800 mg/kg (rat)
------	------	-------------------

Dermal	LD50	>2,000 mg/kg (rabbit)
--------	------	-----------------------

15625-89-5 trimethylolpropane triacrylate

Oral	LD50	3,680 mg/kg (rat)
------	------	-------------------

Dermal	LD50	5,170 mg/kg (rabbit)
--------	------	----------------------

- **Specific symptoms in biological assay:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

66492-51-1 Trimethylolpropane formalacrylate

LC50/96 h	4 mg/l (Oncorhynchus mykiss)
-----------	------------------------------

5888-33-5 Isobornyl Acrylate

LC50/96 h	0.7 mg/l (Zebra fish) (OECD Test Guideline 203)
-----------	---

EC50/72 h	1.98 mg/l (algae) (OECD Test Guideline 201, Growth inhibition)
-----------	--

(Contd. on page 7)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/25/2023

Reviewed on 08/25/2023

Trade name: IJC357 UV Ink

(Contd. of page 6)

162881-26-7 Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-

LC50/96 h	>0.09 mg/l (Brachydanio rerio)
EC50/48 h	>1.175 mg/l (Daphnia)
EC50/72 h	0.26 mg/l (algae)
IC50	>100 mg/l (Sewage sludge)

42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

LC50/96 h	4.6-10 mg/l (Fish)
-----------	--------------------

15625-89-5 trimethylolpropane triacrylate

LC50/96 h	1-10 mg/l (Daphnia)
EC50/48 h	10-100 mg/l (Daphnia)
EC50/72 h	1-10 mg/l (algae)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
There are no data on the preparation itself
The material is harmful to the environment.



Do not allow product to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Recommendation:**
Disposal must be made according to official regulations.
Also see Section 16 'Other Information'

14 Transport information

- | | |
|-----------------------------------|--|
| • UN-Number | |
| • DOT/TDG, ADR, IMDG, IATA | UN3082 |
| • UN proper shipping name | Environmentally hazardous substance, liquid, n.o.s. (Acrylate Monomer) |
| • DOT/TDG | |
| • ADR | 3082 Environmentally hazardous substance, liquid, n.o.s. (Acrylate Monomer) |
| • IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate Monomer), MARINE POLLUTANT |
| • IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate Monomer) |

(Contd. on page 8)

CA

Safety Data Sheet



according to HPR, Schedule 1

Printing date 08/25/2023

Reviewed on 08/25/2023

Trade name: IJC357 UV Ink

(Contd. of page 7)

<ul style="list-style-type: none"> · Transport hazard class(es) · DOT/TDG (Transport dangerous goods): 	
	
<ul style="list-style-type: none"> · Class · Label 	9 Miscellaneous dangerous substances and articles 9
<ul style="list-style-type: none"> · ADR, IMDG, IATA 	
	
<ul style="list-style-type: none"> · Class · Label 	9 Miscellaneous dangerous substances and articles 9
<ul style="list-style-type: none"> · Packing group · ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA): 	Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> · Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category 	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	Single or combination packagings containing a net quantity per single or inner packaging of 5lt/5kg or less of UN3082, are not subject to the provisions of ADR (Special Provision 375), IMDG (2.10.2.7) or IATA (special provision 197) by way of a pack size exemption.
<ul style="list-style-type: none"> · ADR · Excepted quantities (EQ) 	
	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE MONOMER), 9, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 No further relevant information available.

(Contd. on page 9)

-CA-

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/25/2023

Reviewed on 08/25/2023

Trade name: IJC357 UV Ink

(Contd. of page 8)

- **National regulations**
- **Technical instructions (air):**

Class	Share in %
NK	0.1-1

- **Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The safety data sheets is in compliance with regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878

A "*" in the left hand margin indicates an amendment from the previous version.

- **Relevant phrases**

H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H361 Suspected of damaging fertility or the unborn child.
 H372 Causes damage to organs through prolonged or repeated exposure.

- **Recommended restriction of use**

The product should not be used for any purpose other than that specified in Section 1.

- **Department issuing SDS:**

Product Safety Department - Fujifilm Speciality Systems Limited

- **Contact:** fsis.product-safety@fujifilm.com

- **Date of the latest revision of the safety data sheet** 08/25/2023

- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association (IATA Dangerous Goods Regulation (DGR) 64th Edition 2023)
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 WHMIS: Workplace Hazardous Materials Information System (Canada)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative

-CA-