

**Safety data sheet**

according to 1907/2006/EC, Article 31, as amended

Printing date 06.09.2021

Version number 15

Revision: 06.09.2021

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

- **1.1 Product identifier** Flexo Printing Ink
- **Range** **UVIVID FLEXP JD JD00E**
- **Product Codes** JD752
- **1.2 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.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer:**  
Fujifilm Speciality Ink Systems Limited  
Pysons Road, Broadstairs, Kent. CT10 2LE.  
Tel. +44 (0)1843 866668
- **Distributor:**  
EU Distributor-FUJIFILM EUROPE BV.  
Oudenstraat 1, 5047 TK Tilburg,  
NEDERLAND Tel: +31 13 579 19 11
- **Information department:**  
Regulatory Affairs Department  
Office hours +44(0)1843 866668 (0830 to 1700 GMT)  
fsis.product-safety@fujifilm.com
- **1.4 Emergency telephone number:** +44 (0) 203 394 9886 (English)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Skin Irrit. 2            H315 Causes skin irritation.  
Eye Irrit. 2            H319 Causes serious eye irritation.  
Skin Sens. 1            H317 May cause an allergic skin reaction.  
Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

GHS09

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Dipentaerythritol penta/hexa acrylate  
Hexamethylene diacrylate  
Proprietary multifunctional acrylate  
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-
- **Hazard statements**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P273            Avoid release to the environment.  
P280            Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P333+P313    If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313    If eye irritation persists: Get medical advice/attention.
- **Additional information:**  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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**2.3 Other hazards**

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder containing 1% or more of titanium dioxide which is in the form or incorporated in particles with aerodynamic diameter  $\leq 10\mu\text{m}$

**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixture**

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

**Dangerous components:**

CAS: 13048-33-4 EINECS: 235-921-9 Reg.nr.: 01-2119484737-22	Hexamethylene diacrylate ----- Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-30%
	Proprietary multifunctional acrylate ----- Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	1-5%
CAS: 162881-26-7 ELINCS: 423-340-5 Reg.nr.: 01-2119489401-38	Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)- ----- Skin Sens. 1, H317 Aquatic Chronic 4, H413	1-5%
CAS: 142-16-5 EINECS: 205-524-5 Reg.nr.: 01-2119524002-60	Bis(2-ethylhexyl) maleate ----- STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<1%
CAS: 52408-84-1 NLP: 500-114-5 Reg.nr.: 01-2119487948-12	Glycerolpropoxytriacyrylate ----- Eye Irrit. 2, H319; Skin Sens. 1A, H317	<1%

**Additional information**

See Note 10 in section 2.3

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

**SECTION 4: First aid measures****4.1 Description of first aid measures**

• **General information** Never make an unconscious person vomit or drink fluids.

**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 soap and water and rinse thoroughly.

**After eye contact**

Rinse open eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing** If symptoms persist consult doctor.**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents**

Use fire extinguishing methods that suit the environment.

**5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

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Carbon monoxide (CO)

Nitrogen oxides (NOx)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Cool endangered containers with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation



Refer to the protective measures stated in Sections 7 and 8.  
Keep unprotected personnel away.

- **6.2 Environmental precautions:**  
Inform respective authorities if seepage into water course or sewage system occurs.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **6.4 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.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly sealed containers.  
Keep away from heat and direct sunlight.  
No special measures required.  
Ensure good ventilation and extraction at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:** Store in accordance with current national regulations.
- **Requirements to be met by storerooms and containers:**  
Store in a cool location.  
Store between 5 - 30°C.
- **Information about storage in one common storage facility:** Not required.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- **DNELs**  
worker:

### 13048-33-4 Hexamethylene diacrylate

Dermal	DNEL	2.77 mg/kg (-) (Long Term)
Inhalation	DNEL	24.48 mg/m <sup>3</sup> (-) (Long Term)

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

Dermal	DNEL	3.3 mg/kg (-) (Long Term)
Inhalation	DNEL	7.8 mg/m <sup>3</sup> (-) (Long Term)

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<b>142-16-5 Bis(2-ethylhexyl) maleate</b>		
Dermal	DNEL	0.42 mg/kg (-) (Long Term systemic effects)
Inhalation	DNEL	1.95 mg/m <sup>3</sup> (-) (Long Term systemic effects)
<b>52408-84-1 Glycerolpropoxytriacylate</b>		
Dermal	DNEL	1.92 mg/kg (-) (Long Term)
Inhalation	DNEL	16.2 mg/m <sup>3</sup> (-) (Long Term)
<b>13463-67-7 titanium dioxide</b>		
Inhalation	DNEL	10 mg/m <sup>3</sup> (-) (Local long-term effects)

- **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.

- **8.2 Exposure controls**

- **General protective and hygienic measures**

Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

- **Breathing equipment:**

Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)  
Filter A/P2.

- **Protection of hands:**

Use of the following recommended:

Type	Rubber			Nitrile		Neoprene
	Single Use	Multi Use	Heavy Duty (Gauntlets)	Single Use	Multi Use	Heavy Duty (Gauntlets)
Preparation	X	Y	X	X	Y	X
Print Shop						
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 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 obtained from the manufacturer of the protective gloves and must be observed.

- **Eye protection:** Tightly sealed goggles.

- **Body protection:**

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. Protective work clothing; disposable overalls are preferable.

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- **COSHH Essentials for Printers Control Guidance Sheet:**  
Guidance is provided by the Health and Safety executive (HSE) concerning COSHH (Control of Substances Hazardous to Health) for printers.  
See COSHH Essentials for Printers on the HSE website:  
[www.hse.gov.uk](http://www.hse.gov.uk) and enter 'COSHH Essentials for printers' in the search bar.

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Fluid
  - Colour: According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/freezing point: undetermined
  - Initial boiling point and boiling range: undetermined
- **Flash point:** Not applicable
- **Flammability (solid, gaseous)** Not applicable.
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined.
- **Self igniting:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Oxidising properties** Not determined
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 1.85 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Water:** Not miscible or difficult to mix
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - dynamic: Not determined.
  - kinematic: Not determined.
- **Solvent content:**
  - Organic solvents: 0.0 %
- **9.2 Other information** No further relevant information available.

**SECTION 10: Stability and reactivity**

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

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

### 13048-33-4 Hexamethylene diacrylate

Oral	LD50	>3,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rab)

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

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

### 52408-84-1 Glycerolpropoxytriacylate

Oral	LD50	10,000 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (Rabbit)

- **Specific symptoms in biological assay:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Additional toxicological information:** No further data
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

### 13048-33-4 Hexamethylene diacrylate

LC50/96 h	>1-10 mg/l (Fish)
EC/LC50 48 h	>1-10 mg/l (Daphnia)
EC/LC50 72 h	>1-10 mg/l (Algae)
EC50/72 h	1-10 mg/l (Scenedesmus subspicatus)

### 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)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
- **General notes:**  
There are no data on the preparation itself.



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

The preparation has been assessed following the conventional method of the CLP Directive 1272/2008/EC and is classified as dangerous for the environment. Also refer to Sections 2 and 15.

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

## SECTION 13: Disposal considerations

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



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

- **European waste catalogue**

08 03 12*	waste ink containing hazardous substances
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- **Waste Hazard Classification:**

HP 4 - Irritant  
HP 13 - Sensitising  
HP 14 - Eco Toxic

- **Recommendation:** Also see Section 16 'Other Information'

## SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN3082
- **14.2 UN proper shipping name**
- **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)

- **14.3 Transport hazard class(es)**

- **ADR, IMDG, IATA**



- **Class** 9 Miscellaneous dangerous substances and articles.
- **Label** 9

- **14.4 Packing group**

- **ADR, IMDG, IATA** III

- **14.5 Environmental hazards:**

- **Marine pollutant:** Yes  
Symbol (fish and tree)
- **Special marking (ADR):** Symbol (fish and tree)

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· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles.
· <b>Hazard identification number (Kemler code):</b>	90
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	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.
-----	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	-
-----	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE MONOMER), 9, III

**SECTION 15: Regulatory information**

- **15.2 Chemical Safety Assessment** Chemical Safety Assessment not applicable
- **15.28 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
Not formulated to contain SVHC according to REACH Article 57 >0.1%

**SECTION 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.

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

- **Relevant phrases**
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - H373 May cause damage to organs through prolonged or repeated exposure.
  - H400 Very toxic to aquatic life.
  - H410 Very toxic to aquatic life with long lasting effects.
  - H413 May cause long lasting harmful effects to aquatic life.
- **Recommended restriction of use**  
The product should not be used for any purpose other than that specified in Section 1.

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- **Department issuing SDS:**

Regulatory Affairs Department - Fujifilm Speciality Ink Systems Limited

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

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association (IATA Dangerous Goods Regulation (DGR) 61st Edition 2020)

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

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