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Safety data sheet

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

Printing date 16.03.2017

Version number 3

Revision: 19.05.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product indentifier Flexo Printing Ink · Range UVIVID FLEXO SLEEVE WHITE · Product Codes JDSW1 · 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. \cdot 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 · Information department: Product Safety Department Office hours +44(0)1843 866668 (0830 to 1700 GMT) 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 Sens. 1 H317 May cause an allergic skin reaction. Aquatic Chronic 3 H412 Harmful 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 · Signal word Warning · Hazard-determining components of labelling: (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate Silicone Acrylate Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl) -Glycerolpropoxytriacrylate · Hazard statements H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. · Precautionary statements Wear protective gloves/protective clothing/eye protection/face protection. P280 P273 Avoid release to the environment. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. · 2.3 Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. (Contd. on page 2) GB

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· vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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

· Dangerous components:

	Polyester Acrylate Oligomer - Polymer H315/319	1-58
	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 7473-98-5 EINECS: 231-272-0 Reg.nr.: 01-2119472306-39	1-Propanone,2-hydroxy-2-methyl-1-phenyl- Acute Tox. 4, H302 Aquatic Chronic 3, H412	1-5
CAS: 42978-66-5 EINECS: 256-032-2 Reg.nr.: 01-2119484631-34	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1- ethanediyl)] diacrylate Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	1-5
CAS: 125455-52-9 EC number: 603-070-6 Reg.nr.: Not Available	Silicone Acrylate Skin Sens. 1, H317	1-5
CAS: 75980-60-8 EINECS: 278-355-8 Reg.nr.: 01-2119972295-29	Phosphine Oxide,Diphenyl(2,4,6-tri- Methylbenzoyl)- Repr. 2, H361f Aquatic Chronic 2, H411	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	<18
CAS: 52408-84-1 NLP: 500-114-5 Reg.nr.: 01-2119487948-12	Glycerolpropoxytriacrylate Eye Irrit. 2, H319; Skin Sens. 1A, H317	<1%
CAS: 71868-10-5 ELINCS: 400-600-6 Reg.nr.: 01-0000015054-80	*2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one Aquatic Chronic 2, H411 Acute Tox. 4, H302	<1%

Additional information

*For additional information please refer to section 11

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.
	Immediately remove any clothing soiled by the product.
•	After inhalation Supply fresh air; consult doctor in case of complaints.
•	After skin contact
	Immediately wash with soap and water and rinse thoroughly.
	If skin irritation continues, consult a doctor.
•	After eye contact
	Rinse open eye for several minutes under running water. Then consult a doctor.
•	After swallowing
	Give patient copious amounts of water to drink and provide fresh air. Call for a
	doctor immediately.
•	4.2 Most important symptoms and effects, both acute and delayed
	No further relevant information available.

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(Contd. of page 2) • **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
 CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture
 In case of fire, the following can be released:
 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



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

Ensure adequate ventilation

6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. 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). Dispose of contaminated material as waste according to section 13.
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. Ensure good ventilation and extraction at the workplace.

· 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 between 5 30 °C.
- Information about storage in one common storage facility: Do not store together with oxidising and acidic materials. Do not store together with alkalis (caustic solutions).
 7.2 Specific and use(a) No further relevant information available.
- 7.3 Specific end use(s) No further relevant information available.

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worker:							
7473-98-5 1-Pr	onanone ?	- hydroxy-	2-methyl	1-nhenvl			
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Inhalation DN		ng/m3 (-)	-				
		-	-		-2 1-4	ethanediyl)] di	acrulate
Dermal DN	-	mg/kg (-)	-		. 2/1 (.chancaryr,, ar	uciyiuce
Inhalation DN		mg/m3 (-					
75980-60-8 Pho		-	-		vlbenz	ov1)-	
Dermal DN	-	′kg (-) (I	-				
Inhalation DN	_	ng/m3 (-)	-				
162881-26-7 Ph		-	-		thylbe	enzovl)-	
Dermal DN	-	g/kg (-)	-				
Inhalation DN		ng/m3 (-)	-				
52408-84-1 Gly		-	-				
		mg/kg (-)	-	erm)			
Inhalation DN		mg/m3 (-)	-				
Additional inf		-					
The instructio	ns and in	formation	provide	d by the n	nanufac	cturer of the p	personal
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followed.							
loiioweu.							
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8.2 Exposure c General protec Immediately re Wash hands bef Avoid contact Store protecti Keep away from Breathing equi Protection of Use of the fol Type Preparation Print Shop Solvent Ink	tive and move all ore break with the ve clothi foodstuf pment: No hands: lowing re / Single /Use / / X	soiled an s and at eyes and ng separa fs, bever t necessa commended Rubber Multi H Use (Use (Y Y	d contam the end o skin. tely. rages and ry if roo f: Gauntlets X	of work. feed. om is well / Nitri y Single s) Use X	l-venti le Multi Use Y Y	Neoprene Heavy Duty (Gauntlets) X Y	
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(Contd. of page 4) Gloves should be replaced regularly and if there is any sign of damage to the glove material.
Single use disposable nitrile gloves (short duration exposure of few minutes, or where only splashes likely). Not to be reused when removed.
<pre>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. 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: Safety glasses Body protection:</pre>
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.
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 and enter 'COSHH Essentials for printers' in the search bar.

9.1 Information on basic physica General Information	l and chemical properties
Appearance:	
Form:	Fluid
Colour: Odour:	According to product specification Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/freezing point: Initial boiling point and boi	
range:	109 °C
Flash point:	Not applicable
Flammability (solid, gaseous)	Not determined.
Ignition temperature:	Not applicable
Decomposition temperature:	Not determined.
Self igniting:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Density at 20 °C: Water:	1.6 g/cm³ Not miscible or difficult to mix
Viscosity:	
dynamic: kinematic:	Not determined. Not determined.
Solvent content: Organic solvents:	0.0 %

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• 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
- \cdot Thermal decomposition / conditions to be avoided:
 - No decomposition if used according to specifications.
- Stable until: 50 °C

Oral

- 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.

SECTION 11: Toxicological information

 \cdot 11.1 Information on toxicological effects

LD50 1694 mg/kg (rat)

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

· LD/LC50 values that are relevant for classification:

7473-98-5 1-Propanone, 2-hydroxy-2-methyl-1-phenyl-

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

Oral LD50 6800 mg/kg (rat)

Dermal LD50 >2000 mg/kg (Rabbit)

125455-52-9 Silicone Acrylate

Oral LD50 > 2000 mg/kg (rat)

75980-60-8 Phosphine Oxide, Diphenyl (2,4,6-tri-Methylbenzoyl) -

Oral LD50 > 5000 mg/kg (rat)

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

Oral LD50 >2000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rat)

52408-84-1 Glycerolpropoxytriacrylate

Oral LD50 10000 mg/kg (rat)

Dermal LD50 5000 mg/kg (Rabbit)

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

Oral LD50 1984 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rat)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation

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

Respiratory or skin sensitisation

May cause an allergic skin reaction.

· Additional toxicological information:

Substance with CAS number 71868-10-5 is subject to evaluation by the European Chemicals Agency (ECHA), following a proposal for harmonised classification & labelling as a reprotoxin. The proposal for the addition of R60/61 follows a reprotoxicity study undertaken by a supplier of the material (the corresponding CLP classification is Repro 1B H360FD). This new classification is in addition to the harmful if swallowed (R22) and aquatic toxicity (R51/53) rating of the material, which is currently identified in Section 3 of this safety data sheet. We await the decision of ECHA, following which we will review our safety data sheets and labels, noting that the overall classification of this product will not be affected. The supplier informs us that there has been no compositional change to this ingredient; the classification change is due to the inherent properties of the substance and not caused by any impurities or difference in quality.

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- CMR effects (carcinogenity, 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.

 \cdot 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
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· Aquatic toxic	ity:
-	ropanone,2-hydroxy-2-methyl-1-phenyl-
LC50/96 h	160 mg/l (Fish)
,	0.64 mg/l (Algae)
IC50	3 mg/l (Sewage sludge)
1050	3 mg/l (Bacteria)
BOD28	(-)
00020	59% - biodegradable but not readily biodegradable
42978-66-5 (1	-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
LC50/96 h	1-10 mg/l (Fish)
EC50/48 h	10-100 mg/l (Daphnia)
75980-60-8 Ph	osphine Oxide,Diphenyl(2,4,6-tri-Methylbenzoyl)-
LC50/96 h	10 - 100 mg/l (Fish)
EC50	> 500 mg/dm3 (Bacteria)
EC50/48 h	1 - 10 mg/l (Daphnia)
EC50/72 h	10 - 100 mg/l (Algae)
162881-26-7 P	hosphine 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)
71868-10-5 *2	-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one
LC50/96 h	9 mg/l (Brachydanio rerio) (OECD 203)
 12.3 Bioaccum 12.4 Mobility Additional ec General notes There are no The preparati Directive 127 	<pre>nce and degradability No further relevant information available. ulative potential No further relevant information available. in soil No further relevant information available. ological information: : data on the preparation itself. on has been assessed following the conventional method of the CLP 2/2008/EC and is not classified as dangerous for the environment, but tance(s) dangerous for the environment. Also refer to Section 2.</pre>
Do r	not allow product to reach ground water, water course or sewage system. of PBT and vPvB assessment
• PBT: Not app1 • vPvB: Not app	
••••••••••••••••••••••••••••••••••••••	

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· 12.6 Other adverse effects No further relevant information available.

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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

· Waste Hazard Classification: HP 13 - Sensitising

Recommendation:

Dispose of product according to official regulations.

Also see Section 16 'Other Information'

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
• Marine pollutant:	No
• 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex	с — — — — — — — — — — — — — — — — — — —
II of Marpol and the IBC Code	Not applicable.
• Transport/Additional information:	Not dangerous according to the above specifications.
• UN "Model Regulation":	Void

SECTION 15: Regulatory information

Chemical Safety Assessment Chemical Safety Assessment not applicable
 15.1 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.

• National regulations

 \cdot Other regulations, limitations and prohibitive regulations

• Substances of very high concern (SVHC) according to REACH, Article 57 Does not contain a SVHC according to REACH, Article 57

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	CTION 16: Other information
COI	is information is based on our present knowledge. However, this shall not nstitute a guarantee for any specific product features and shall not establish a gally valid contractual relationship.
-	
Re	levant phrases
	02 Harmful if swallowed.
	15 Causes skin irritation.
	17 May cause an allergic skin reaction.
	19 Causes serious eve irritation.
	35 May cause respiratory irritation.
	61f Suspected of damaging fertility.
	11 Toxic to aquatic life with long lasting effects.
	12 Harmful to aquatic life with long lasting effects.
	13 May cause long lasting harmful effects to aquatic life.
	commended restriction of use
	e product should not be used for any purpose other than that specified in Section
1.	
Dei	partment issuing SDS:
-	oduct Safety Department - Fujifilm Speciality Ink Systems Limited
	ntact: product.safety@fujifilm.com
	breviations and acronyms:
ADR the	2: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerni 2: International Carriage of Dangerous Goods by Road) 2: International Maritime Code for Dangerous Goods
IAT GHS	A: International Air Transport Association (IATA Dangerous Goods Regulation (DGR) 57th Edition 2016) B: Globally Harmonised System of Classification and Labelling of Chemicals
	IECS: European Inventory of Existing Commercial Chemical Substances
	NCS: European List of Notified Chemical Substances 3: Chemical Abstracts Service (division of the American Chemical Society)
	L: Derived No-Effect Level (REACH)
	0: Lethal concentration, 50 percent
	0: Lethal dose, 50 percent ': Persistent, Bioaccumulative and Toxic
	C: Substances of Very High Concern
	B: very Persistent and very Bioaccumulative
	ite Tox. 4: Acute toxicity - Category 4 n Irrit. 2: Skin corrosion/irritation - Category 2
	// Irrit. 2. Srin confostous pe damage/eye irritation - Category 2
	n Sens. 1: Skin sensitisation - Category 1
	n Sens. 1A: Skin sensitisation - Category 1A
	or. 2: Reproductive toxicity – Category 2 NT SE 3: Specific target organ toxicity (single exposure) – Category 3
	n SE 3: Specific target organ toxicity (Single exposure) - Category 3 Natic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2
Aqu	atic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3
Δm	atic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4