

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.02.2011




Version number 2

Revision: 31.01.2011

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier** Screen Printing Ink
- **Range: OMNIPLUS UL - UL00E**
- **Product Code(s):** UL004
- **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.
- **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. +44 (0)1843 872030
elaine.campling@fujifilmsis.com
- **Emergency telephone number:** Elaine Campling BSc.(Hons) +44(0)1843 872030
- **Distributor:**
FUJIFILM UK LTD
St Martins Way
St Martins Business Centre
Bedford. MK42 0LF UK
TEL : +44 (0) 1234 245245

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 -  Xi; Irritant
R36/37/38: Irritating to eyes, respiratory system and skin.
 -  Xi; Sensitising
R43: May cause sensitisation by skin contact.
 -  N; Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**
The classification was made according to the latest editions of the EU-lists, and expanded by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives on Hazardous Materials
- **Code letter and hazard designation of product:**
Xi Irritant
N Dangerous for the environment
- **Hazard-determining components of labelling:**
2-Phenoxyethyl Acrylate
Amine Acrylate - Polymer
- **Risk phrases:**
36/37/38 Irritating to eyes, respiratory system and skin.
43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2011

Version number 2

Revision: 31.01.2011

Range: OMNIPLUS UL - UL00E

(Contd. of page 1)

- **Safety phrases:**
 - 36/37 Wear suitable protective clothing and gloves.
 - 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 48145-04-6 EINECS: 256-360-6	2-Phenoxyethyl Acrylate ☒ Xi R37; ☒ Xi R43 ⚠ Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 2235-00-9 EINECS: 218-787-6	2H-Azepin-2-one, 1-ethanyhexahydro ☒ Xn R22; ☒ Xi R36 ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	10-25%
CAS: 5888-33-5 EINECS: 227-561-1	Isobornylacrylate ☒ Xi R36/37/38; ☒ N R51/53 ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-25%
CAS: 119313-12-1 ELINCS: 404-360-3	2-benzyl-2-dimethylamino-4-morpholinobutyrophenone ☒ N R50/53 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-5%
CAS: 75980-60-8 EINECS: 278-355-8	Phosphine Oxide, Diphenyl (2,4,6-tri-Methylbenzoyl)- ☒ Xn R62; ☒ N R51/53 ⚠ Repr. 2, H361; ⚠ Aquatic Chronic 2, H411	1-5%
	Amine Acrylate - Polymer ☒ Xi R36/38; ☒ Xi R43 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	1-5%
CAS: 105-59-9 EINECS: 203-312-7	2,2'-(methylimino)diethanol ☒ Xi R36 ⚠ Eye Irrit. 2, H319	1-5%
CAS: 119-61-9 EINECS: 204-337-6	benzophenone ☒ Xi R36/37/38 R52/53 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	1-5%

- **Additional information**
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **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.

GB

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.02.2011

Version number 2

Revision: 31.01.2011

Range: OMNIPLUS UL - UL00E

(Contd. of page 2)

5 Firefighting measures

- **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.
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **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.

6 Accidental release measures

- **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
- **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.
- **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.
- **Reference to other sections**
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **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.
- **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 oxidizing and acidic materials.
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

105-59-9 2,2'-(methylimino)diethanol

OEL (Great Britain)

Long-term value: 5 mg/m³
Manufacturer's recommended value

(Contd. on page 4)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.02.2011

Version number 2

Revision: 31.01.2011

Range: OMNIPLUS UL - UL00E

(Contd. of page 3)

- **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**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Store protective clothing separately.

Keep away from foodstuffs, beverages and feed.

- **Breathing equipment:** Not necessary if room is well-ventilated.

- **Protection of hands:**

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.

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.

- **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:**

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 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form: Fluid

Colour: According to product specification

- **Odour:** Characteristic

- **Change in condition**

Melting point/Melting range: undetermined

Boiling point/Boiling range: 111°C

- **Flash point:** Not applicable

- **Self igniting:** Product is not selfigniting.

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

- **Density at 20°C:** 1.11 g/cm³

(Contd. on page 5)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.02.2011

Version number 2

Revision: 31.01.2011

Range: OMNIPLUS UL - UL00E

(Contd. of page 4)

- | | |
|---------------------------|----------------------------------|
| · Water: | Not miscible or difficult to mix |
| · Viscosity: | |
| dynamic: | Not determined. |
| kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | 0.2 % |
| · VOC(EU): | 0.20 % |

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Stable until:** 50°C

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	>2000 mg/kg (rat)
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5888-33-5 Isobornylacrylate

Oral	LD50	>2000 mg/kg (rat)
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Dermal	LD50	>2000 mg/kg (Rabbit)
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119313-12-1 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone

Oral	LD50	>2000 mg/kg (rat)
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Dermal	LD50	>2000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

5888-33-5 Isobornylacrylate

EC50/48 h	1-10 mg/l (Daphnia)
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EC50/72 h	1-10 mg/l (Algae)
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119313-12-1 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone

BOD28	(-)
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EC50 24h	> 0.8 mg/g (Daphnia)
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EC50/72 h	4 mg/l (Algae)
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IC50	> 100 mg/l (Bacteria)
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LC50/96 h	0.46 mg/l (Fish)
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- **Additional ecological information:**

- **General notes:**

There are no data on the preparation itself.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified as dangerous for the environment. Also refer to Sections 2 and 15.

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

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.02.2011

Version number 2

Revision: 31.01.2011

Range: OMNIPLUS UL - UL00E

(Contd. of page 5)

- vPvB: Not applicable.

13 Disposal considerations

- **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 dangerous substances
- **Waste Hazard Classification:**
H4 - Irritant
H14 - Eco Toxic
- **Recommendation:**
Dispose of product according to official regulations.
Also see Section 16 'Other Information'

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 9 Miscellaneous dangerous substances and articles.
- **Danger code (Kemler):** 90
- **UN-Number:** 3082
- **Packaging group:** III
- **Label** 9
- **Special marking:** Symbol (fish and tree)
- **UN proper shipping name:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate Monomer)
- **Tunnel restriction code** E

- **Maritime transport IMDG:**



- **IMDG Class:** 9
- **UN Number:** 3082
- **Label** 9
- **Packaging group:** III
- **EMS Number:** F-A, S-F
- **Marine pollutant:** No
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate Monomer)

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label** 9
- **Special marking:** Symbol (fish and tree)
- **Packaging group:** III
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate Monomer)

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.02.2011

Version number 2

Revision: 31.01.2011

Range: OMNIPLUS UL - UL00E

(Contd. of page 6)

- **Special precautions for user**
Warning: Miscellaneous dangerous substances and articles.

15 Regulatory information

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

16 Other information

For UK Only; disposal can be arranged by Environmental Services,
Telephone Number: (01843) 872080
Fax Number: (01843) 872068

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.

- **Relevant phrases**

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R36/37/38 Irritating to eyes, respiratory system and skin.
R36/38 Irritating to eyes and skin.
R37 Irritating to respiratory system.
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.

- **Recommended restriction of use**

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

- **Department issuing MSDS:**

Product Safety Department - Fujifilm Speciality Ink Systems Limited

- **Contact:** Elaine Camping BSc.(Hons) - Product Safety Manager