

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

Printing date 22.04.2016

Version number 1

Revision: 29.02.2016

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

- **1.1 Product identifier** Printing Ink Additive
- **Range** MULTIFLASH UZ TRICH MEDIUM
- **Product Codes** SM673
- **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
- **Information department:**
Product Safety Department
Office hours +44(0)1843 866668 (0830 to 1700 GMT)
product.safety@fujifilmsis.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 Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- **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**



GHS05 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Oxybis(methyl-2,1-ethanediyl) diacrylate
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

GB

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.04.2016

Version number 1

Revision: 29.02.2016

Range MULTIFLASH UZ TRICH MEDIUM

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

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

- **Dangerous components:**

CAS: 57472-68-1	Oxybis(methyl-2,1-ethanediyl) diacrylate	50-100%
EINECS: 260-754-3	Eye Dam. 1, H318	
Reg.nr.: 01-2119484629-21	Skin Irrit. 2, H315; Skin Sens. 1, H317	

- **Additional information**

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.
Call a doctor immediately.
- **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.
- **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 (NO_x)
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.

GB

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.04.2016

Version number 1

Revision: 29.02.2016

Range MULTIFLASH UZ TRICH MEDIUM

(Contd. of page 2)

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:

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).

Further information about storage conditions:

Protect from heat and direct sunlight.

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:

57472-68-1 Oxybis(methyl-2,1-ethanediyl) diacrylate		
Dermal	DNEL	2.77 mg/kg (-) (Long Term)
Inhalation	DNEL	24.48 mg/m ³ (-) (Long Term)

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.04.2016

Version number 1

Revision: 29.02.2016

Range MULTIFLASH UZ TRICH MEDIUM

(Contd. of page 3)

- Store protective clothing separately.
- **Breathing equipment:** Not necessary if room is well-ventilated.
 - **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.

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

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

- **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:**

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.

- **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.

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

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.04.2016

Version number 1

Revision: 29.02.2016

Range MULTIFLASH UZ TRICH MEDIUM

(Contd. of page 4)

· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition Melting point/Melting range:	undetermined
Boiling point/Boiling range:	> 120 °C
· Flash point:	Not applicable
· Flammability (solid, gaseous)	Not determined.
· Ignition temperature:	Not applicable
· Decomposition temperature:	Not determined.
· Self igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Not determined
· Vapour pressure at 20 °C:	1.5 hPa
· Density:	Not determined
· 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:	Not determined
· 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.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.04.2016

Version number 1

Revision: 29.02.2016

Range MULTIFLASH UZ TRICH MEDIUM

(Contd. of page 5)

- **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.
- **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:

57472-68-1 Oxybis(methyl-2,1-ethanediyl) diacrylate

LC50/96 h	1-10 mg/l (Brachydanio rerio) The material is readily biodegradable and the Log Kow is less than 1.
EC50/48 h	10-100 mg/l (Daphnia)
EC50/72 h	10-100 mg/l (Aquatic Plants)

- **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.
- **Additional ecological information:**
- **General notes:**
There are no data on the preparation itself.
The preparation has been assessed following the conventional method of the CLP Directive 1272/2008/EC and is not classified as dangerous for the environment.



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

- **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
-----------	---

- **Waste Hazard Classification:**
HP 4 - Irritant
HP 13 - Sensitising
- **Recommendation:**
Also see Section 16 'Other Information'

(Contd. on page 7)

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

Printing date 22.04.2016

Version number 1

Revision: 29.02.2016

Range MULTIFLASH UZ TRICH MEDIUM

(Contd. of page 7)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association (IATA Dangerous Goods Regulation (DGR) 55th Edition 2014)

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)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

GB