

FUJIFILM**Safety Data Sheet**

according to 1907/2006/EC, Article 31

Printing date 02.02.2009

Revision: 30.01.2009

1 Identification of Product:

- **Use:** Screen Printing Ink
- **Range:** POLYDYNE YD - YD00A
- **Product Code(s):**
YD001 YD021 YD064 YD066 YD114 YD121 YD164 YD165 YD230 YD325 YD381
- **Manufacturer/Supplier:**
Fujifilm Sericol UK Limited
Pysons Road, Broadstairs, Kent. CT10 2LE.
Tel. +44 (0)1843 866668
- **Information department:**
Product Safety Department. +44 (0)1843 872030
elaine.campling@fujifilmsericol.com
- **Emergency information:** Elaine Campling BSc.(Hons) +44(0)1843 872030

2 Hazards identification

- **Hazard description:**



Xi Irritant
N Dangerous for the environment

- **Information pertaining to particular dangers for man and environment**
R 10 Flammable.
R 37 Irritating to respiratory system.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 67 Vapours may cause drowsiness and dizziness.
- **Classification system**
The classification was made according to the latest editions of the EU-lists, and expanded by company and literature data.
- **Additional information:**
Exposure to component solvent vapours above the occupational exposure limit, stated in Section 8, may result in adverse health effects such as mucous membrane and respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Organic solvents should not be used for hand cleaning as this may lead to absorption through the skin, skin irritation or dermatitis.

3 Composition/information on ingredients

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

Dangerous components:

CAS: 64742-95-6 EINECS: 265-199-0	*Solvent naphtha (petroleum), light aromatic Xn, Xi, N; R 10-37-51/53-65-66-67	25-50%
CAS: 64742-94-5 EINECS: 265-198-5	Solvent naphtha (petroleum) heavy aromatic Xn, N; R 51/53-65-66-67	10-25%
CAS: 97-86-9 EINECS: 202-613-0	isobutyl methacrylate Xi, N; R 10-36/37/38-43-50	<1.0%

Additional information

For the wording of the listed risk phrases refer to section 16.
* See Nota P, Annex I

4 First aid measures

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

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- Immediately remove any clothing soiled by the product.
- **After inhalation**
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with soap and water and rinse thoroughly.
- **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.

5 Fire fighting measures

- **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 caused by the material, its products of combustion or resulting gases:**
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **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

- **Person-related safety precautions:**
Keep away from ignition sources
Refer to the protective measures stated in Sections 7 and 8. Keep unprotected personnel away.
Ensure adequate ventilation
- **Measures for environmental protection:**
Prevent seepage into sewage system, workpits and cellars.
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.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Store in cool, dry place in tightly sealed containers.
Keep away from heat and direct sunlight.
Ensure good interior ventilation.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
- **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 alkalis (caustic solutions).
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:** Keep container tightly sealed.

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8 Exposure controls and personal protection

- Additional information about design of technical systems:**

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates or solvent vapour below the occupational exposure limit stated, then suitable respiratory protection must be worn as a temporary measure and is specified below.

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

64742-95-6 *Solvent naphtha (petroleum), light aromatic

OES (Great Britain)	Short-term value: 75 ppm Long-term value: 120 mg/m ³ , 25 ppm
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- 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.

- General protective and hygienic measures**

Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.

- Breathing equipment:**

In cases of insufficient ventilation use the following respiratory protective device:
CEN: A1 filter.

- 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 (nitrile/neoprene gloves will last longer than latex/rubber). 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.

Type	Latex/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

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:** Safety glasses

- Body protection:** 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.

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9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

· Change in condition

Melting point/Melting range: undetermined
Boiling point/Boiling range: 162°C

· **Flash point:** 43°C

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

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

· **Vapour pressure at 20°C:** 3 hPa

· **Density at 20°C:** 0.98 g/cm³

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

· Viscosity:

kinematic: >30s (ISO 2431 3mm 23°C)(not R65)
>60s (ISO 2431 6mm 23°C)- not ADR
If =<30LT/KG not IMDG 2.3.2.5

· Solvent content:

Organic solvents: 44.2 %
VOC(EU): 49.55 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

64742-95-6 *Solvent naphtha (petroleum), light aromatic

Oral	LD50	3750 mg/kg (rat)
Dermal	LD50	2400 mg/kg (rab)
Inhalation	LC50	>10.2 mg/m ³ (rat)

64742-94-5 Solvent naphtha (petroleum) heavy aromatic

Oral	LD50	2000 mg/kg (rat)
Dermal	LD50	2000 mg/kg (Rabbit)
	LC50	>1<10 mg/kg (Algae)

· Primary irritant effect:

· **on the skin:** No irritant effect.

12 Ecological information:

· Ecotoxicological effects:

· Aquatic toxicity:

64742-95-6 *Solvent naphtha (petroleum), light aromatic

EC/LC50 48 h	6.1 mg/l	(Daphnia)
IC50	>1<10 mg/l	(Algae)
	1-10 mg/l	(Bacteria)
	1-10 mg/l	(Fish)

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LC50/96 h	9.2 mg/l (Oncorhynchus mykiss)
64742-94-5 Solvent naphtha (petroleum) heavy aromatic	
LC50/4 h	> 5 mg/l (rat)
LC50/96 h	1-10 mg/l (Fish)

- **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.

13 Disposal considerations

- **Product:**

- **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
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- **Waste Hazard Classification:**

H3B - Flammable

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:** -

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1210
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E, S-D
- **Marine pollutant:** No
- **Proper shipping name:** PRINTING INK

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



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1210
- **Label** 3
- **Packaging group:** III
- **Proper shipping name:** PRINTING INK

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15 Regulations

- **Markings 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
- **Risk phrases:**
 10 Flammable.
 37 Irritating to respiratory system.
 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 67 Vapours may cause drowsiness and dizziness.
- **Safety phrases:**
 36/37 Wear suitable protective clothing and gloves.
 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- **Special labelling of certain preparations:**
 Contains isobutyl methacrylate, [[-4(1,-Dimethylethyl)phenoxy]methyl]oxiraine
 . May produce an allergic reaction.

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 R-phrases**
 10 Flammable.
 36/37/38 Irritating to eyes, respiratory system and skin.
 37 Irritating to respiratory system.
 43 May cause sensitisation by skin contact.
 50 Very toxic to aquatic organisms.
 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 65 Harmful: may cause lung damage if swallowed.
 66 Repeated exposure may cause skin dryness or cracking.
 67 Vapours may cause drowsiness and dizziness.
- **Recommended restriction of use**
 The product should not be used for any purpose other than that specified in Section 1.
- **Department issuing MSDS:** Technical Administration - Fujifilm Sericol UK Limited
- **Contact:** Elaine Campling BSc.(Hons) - Product Safety Manager

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