

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

Printing date 08.02.2011




Version number 9

Revision: 08.07.2008

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

- **Product identifier** Screen printing ink cleaner
- **Range:** **SCREEN WASH UNIVERSAL**
- **Product Code(s):** 41-ZT-639
- **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:**  
Mega Electronics Ltd.,  
Mega House,  
Grip Industrial Estate,  
Linton Cambridge, CB21 4XN.  
TEL : +44 (0) 1223 893900

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  -  Xn; Harmful  
R65: Harmful: may cause lung damage if swallowed.
  -  Xi; Irritant  
R36/37: Irritating to eyes and respiratory system.
  -  N; Dangerous for the environment  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R10-66-67: Flammable. Repeated exposure may cause skin dryness or cracking. 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.
- **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:**  
Xn Harmful  
N Dangerous for the environment
- **Hazard-determining components of labelling:**  
\*Solvent naphtha (petroleum), light aromatic
- **Risk phrases:**  
10 Flammable.  
36/37 Irritating to eyes and respiratory system.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
65 Harmful: may cause lung damage if swallowed.

(Contd. on page 2)

GB

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

Printing date 08.02.2011

Version number 9

Revision: 08.07.2008

Range: SCREEN WASH UNIVERSAL

(Contd. of page 1)

- 66 Repeated exposure may cause skin dryness or cracking.  
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.  
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

- **Other hazards**

Organic solvents should not be used for hand cleaning as this may lead to absorption through the skin, skin irritation or dermatitis.  
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.

- **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: 64742-95-6<br>EINECS: 265-199-0 | *Solvent naphtha (petroleum), light aromatic<br>☒ Xn R65; ☒ Xi R37; ☒ N R51/53<br>R10-66-67<br>Carc. Cat. 2<br>☒ Asp. Tox. 1, H304 | 50-100% |
| CAS: 123-42-2<br>EINECS: 204-626-7   | 4-hydroxy-4-methylpentan-2-one<br>☒ Xi R36<br>☒ Flam. Liq. 3, H226; ☒ Eye Irrit. 2, H319   | 10-25%  |
| CAS: 108-94-1<br>EINECS: 203-631-1   | Cyclohexanone<br>☒ Xn R20<br>R10<br>☒ Flam. Liq. 3, H226; ☒ Acute Tox. 4, H332   | 5-10%   |
| CAS: 107-98-2<br>EINECS: 203-539-1   | 1-Methoxy-2-Propanol<br>R10<br>☒ Flam. Liq. 3, H226  | 5-10%   |

- **Additional information**

- \* See Nota P, Annex I
- 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.
- **After inhalation**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
- **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** Do not induce vomiting; call for medical help immediately.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 3)

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

Printing date 08.02.2011

Version number 9

Revision: 08.07.2008

Range: SCREEN WASH UNIVERSAL

(Contd. of page 2)

- **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)
- **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**  
Keep away from ignition sources  
Refer to the protective measures stated in Sections 7 and 8. Keep unprotected personnel away.  
Ensure adequate ventilation
- **Environmental precautions:**  
Prevent seepage into sewage system, workpits and cellars.  
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 interior ventilation.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **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:** Keep container tightly sealed.

## 8 Exposure controls/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.

(Contd. on page 4)

GB

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

Printing date 08.02.2011

Version number 9

Revision: 08.07.2008

Range: SCREEN WASH UNIVERSAL

(Contd. of page 3)

- Control parameters

| Components with limit values that require monitoring at the workplace: |   |
|--|---|
| <b>64742-95-6 *Solvent naphtha (petroleum), light aromatic</b>         |   |
| OES (Great Britain)  | Short-term value: 75 ppm<br>Long-term value: 120 mg/m <sup>3</sup> , 25 ppm<br>Supplier Recommended           |
| <b>123-42-2 4-hydroxy-4-methylpentan-2-one</b>                         |   |
| OEL (Great Britain)  | Long-term value: 5 mg/m <sup>3</sup><br>Manufacturer's recommended value                                      |
| WEL (Great Britain)  | Short-term value: 362 mg/m <sup>3</sup> , 75 ppm<br>Long-term value: 241 mg/m <sup>3</sup> , 50 ppm           |
| <b>108-94-1 Cyclohexanone</b>  |   |
| OEL (Great Britain)  | Long-term value: 5 mg/m <sup>3</sup><br>Manufacturer's recommended value                                      |
| WEL (Great Britain)  | Short-term value: 20 ppm<br>Long-term value: 10 ppm<br>Sk   |
| IOELV (European Union)   | Short-term value: 81.6 mg/m <sup>3</sup> , 20 ppm<br>Long-term value: 40.8 mg/m <sup>3</sup> , 10 ppm<br>Skin |
| <b>107-98-2 1-Methoxy-2-Propanol</b>                                   |   |
| OEL (Great Britain)  | Long-term value: 5 mg/m <sup>3</sup><br>Manufacturer's recommended value                                      |
| WEL (Great Britain)  | Short-term value: 560 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 375 mg/m <sup>3</sup> , 100 ppm<br>Sk   |
| IOELV (European Union)   | Short-term value: 568 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 375 mg/m <sup>3</sup> , 100 ppm<br>Skin |

- 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.  
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.  
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.

(Contd. on page 5)

GB

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

Printing date 08.02.2011

Version number 9

Revision: 08.07.2008

Range: SCREEN WASH UNIVERSAL

(Contd. of page 4)

| 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

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](http://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:** 120°C

• **Flash point:** 37°C

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

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

• **Explosion limits:**

**Lower:** 0.7 Vol %  
  **Upper:** 9.4 Vol %

• **Vapour pressure at 20°C:** 5 hPa

• **Density at 20°C:** 0.896 g/cm<sup>3</sup>

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

• **Solvent content:**

**Organic solvents:** 100.0 %  
  **VOC (EU):** 100.00 %

## 10 Stability and reactivity

• **Reactivity**

• **Chemical stability**

• **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

• **Possibility of hazardous reactions** No dangerous reactions known

(Contd. on page 6)

GB

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

Printing date 08.02.2011

Version number 9

Revision: 08.07.2008

Range: SCREEN WASH UNIVERSAL

(Contd. of page 5)

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

## 11 Toxicological information

- **Information on toxicological effects**
- **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 <sup>3</sup> (rat) |

### 123-42-2 4-hydroxy-4-methylpentan-2-one

|        |      |                   |
|--------|------|-------------------|
| Oral   | LD50 | 4000 mg/kg (rat)  |
| Dermal | LD50 | 13630 mg/kg (rab) |

### 108-94-1 Cyclohexanone

|            |          |  |
|------------|----------|--|
| Oral       | LD50     | 1900 mg/kg (rat)   |
| Dermal     | LD50     | 948 mg/kg (Rabbit)   |
| Inhalation | LC50     | 8000 mg/m <sup>3</sup> (rat)                                       |
|            | EC0      | 370 mg/kg (Scenedesmus subspicatus)                                |
|            | LC50/96h | 527 mg/l (Pimephales promelas (fathead minnow))<br>704 mg/l (Fish) |

- **Primary irritant effect:**
- **on the eye:** Irritating effect.

## 12 Ecological information

- **Toxicity**

- **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)               |
| LC50/96 h    | 9.2 mg/l (Oncorhynchus mykiss) |

### 123-42-2 4-hydroxy-4-methylpentan-2-one

|           |                       |
|-----------|-----------------------|
| IC50      | >100 mg/l (Algae)     |
|           | >1000 mg/l (Bacteria) |
| LC50/96 h | 420 mg/l (Fish)       |

### 108-94-1 Cyclohexanone

|           |                    |
|-----------|--------------------|
| EC50 24h  | 820 mg/g (Daphnia) |
| EC50/48 h | 29 mg/l (Daphnia)  |

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

GB

(Contd. on page 7)

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

Printing date 08.02.2011

Version number 9

Revision: 08.07.2008

Range: SCREEN WASH UNIVERSAL

(Contd. of page 6)

**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**  
07 07 04\* other organic solvents, washing liquids and mother liquors
- **Waste Hazard Classification:**  
H5 - Harmful  
H4 - Irritant  
H3B - Flammable  
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:** 3 Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1210
- **Packaging group:** III
- **Label:** 3
- **Special marking:** Symbol (fish and tree)
- **UN proper shipping name:** 1210 PRINTING INK RELATED MATERIAL, special provision 640E
- **Tunnel restriction code:** E

- **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 RELATED MATERIAL

- **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 RELATED MATERIAL

- **Special precautions for user:** Warning: Flammable liquids.

GB

(Contd. on page 8)

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

Printing date 08.02.2011

Version number 9

Revision: 08.07.2008

Range: **SCREEN WASH UNIVERSAL**

(Contd. of page 7)

**15 Regulatory information**

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

**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**
  - H226 Flammable liquid and vapour.
  - H304 May be fatal if swallowed and enters airways.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - R10 Flammable.
  - R20 Harmful by inhalation.
  - R36 Irritating to eyes.
  - R37 Irritating to respiratory system.
  - R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  - R65 Harmful: may cause lung damage if swallowed.
  - R66 Repeated exposure may cause skin dryness or cracking.
  - R67 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:**  
Product Safety Department - Fujifilm Speciality Ink Systems Limited
- **Contact:** Elaine Campling BSc.(Hons) - Product Safety Manager

GB