

1 Identification of Product:

- **Use:** Screen Cleaning Chemical
- **Range:** SCREEN CLEANER SV
- **Product Code(s):** SVL38
- **Manufacturer/Supplier:**

Fujifilm Sericol UK Limited	Mega Electronics Ltd.,
Pysons Road, Broadstairs, Kent. CT10 2LE.	Mega House, Grip Ind.Estate
Tel. +44 (0)1843 866668	Linton, Cambridge, CB21 4XN
	Tel: 01223 893900
- **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:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**
 - R 10 Flammable.
 - R 20 Harmful by inhalation.
 - R 36/37 Irritating to eyes and respiratory system.
 - R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R 65 Harmful: may cause lung damage if swallowed.
 - R 66 Repeated exposure may cause skin dryness or cracking.
- **Classification system**
The classification was made according to the latest editions of the EU-lists, and expanded by company and literature data.
- **Additional information:**
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.

3 Composition/information on ingredients

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

- **Dangerous components:**

CAS: 108-94-1 EINECS: 203-631-1	Cyclohexanone Xn; R 10-20	25-50%
CAS: 107-98-2 EINECS: 203-539-1	1-Methoxy-2-Propanol R 10	25-50%
CAS: 64742-95-6 EINECS: 265-199-0	*Solvent naphtha (petroleum), light aromatic Xn, Xi, N; R 10-37-51/53-65-66-67	10-25%
CAS: 123-42-2 EINECS: 204-626-7	4-hydroxy-4-methylpentan-2-one Xi; R 36	10-25%
CAS: 1589-47-5 EINECS: 216-455-5	2-methoxypropanol T, Xi; R 61-10-37/38-41	<1.0%

- **Additional information**
* See Nota P, Annex I

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For the wording of the listed risk phrases refer to section 16.

4 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 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:**
In case of fire, the following can be released:
Carbon monoxide (CO)
- **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:**
Ensure adequate ventilation
Keep away from ignition sources
Refer to the protective measures stated in Sections 7 and 8. Keep unprotected personnel away.
- **Measures for environmental protection:**
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.
- **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, especially at floor level. (Fumes are heavier than air).
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **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).

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- **Further information about storage conditions:** Keep container tightly sealed.

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:**

108-94-1 Cyclohexanone	
WEL (Great Britain)	Short-term value: 20 ppm Long-term value: 10 ppm Sk
IOELV (European Union)	Short-term value: 81.6 mg/m ³ , 20 ppm Long-term value: 40.8 mg/m ³ , 10 ppm Skin
107-98-2 1-Methoxy-2-Propanol	
WEL (Great Britain)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Sk
IOELV (European Union)	Short-term value: 568 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Skin
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
123-42-2 4-hydroxy-4-methylpentan-2-one	
WEL (Great Britain)	Short-term value: 362 mg/m ³ , 75 ppm Long-term value: 241 mg/m ³ , 50 ppm

- **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**

Keep away from foodstuffs, beverages and feed.
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.

- **Breathing equipment:**

Not necessary if room is well-ventilated.
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

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

Use of the following recommended:

- **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.

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:	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.
• Vapour pressure at 20°C:	5.0 hPa
• Density at 20°C:	0.93762 g/cm ³
• Water:	Not miscible or difficult to mix
• Solvent content:	
Organic solvents:	95.6 %
VOC (EU):	95.56 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

• Acute toxicity:

• LD/LC50 values that are relevant for classification:

108-94-1 Cyclohexanone

Oral	LD50	1900 mg/kg (rat)
Dermal	LD50	948 mg/kg (Rabbit)
Inhalation	LC50	8000 mg/m ³ (rat)

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)

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

Oral	LD50	4000 mg/kg (rat)
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Dermal	LD50	13630 mg/kg (rab)
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- **Primary irritant effect:**
- **on the eye:** Irritating effect.

12 Ecological information:

- **Ecotoxicological effects:**

- **Aquatic toxicity:**

64742-95-6 *Solvent naphtha (petroleum), light aromatic	
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EC/LC50 48 h	6.1 mg/l (Daphnia)
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IC50	>1≤10 mg/l (Algae)
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LC50/96 h	9.2 mg/l (Oncorhynchus mykiss)
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123-42-2 4-hydroxy-4-methylpentan-2-one	
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LC50/96 h	420 mg/l (Fish)
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- **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 not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. Also refer to Section 2.

Do not allow undiluted product to reach ground water, water course or sewage system. The product is processed using water and diluted product should only ever be discharged to a sewer. Permission for such discharge needs to be obtained from the local enforcing authority. Enforcers may impose restrictions on the concentrations that can be discharged.

13 Disposal considerations

- **Product:**

- **Recommendation**

Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.

- **European waste catalogue**

07 01 04	other organic solvents, washing liquids and mother liquors
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- **Waste Hazard Classification:**

H5 - Harmful

H4 - Irritant

- **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

- **Description of goods:** 1210 PRINTING INK RELATED MATERIAL

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· **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1210
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E, S-E
- **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

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:**

Xn Harmful

· **Hazard-determining components of labelling:**

*Solvent naphtha (petroleum), light aromatic
Cyclohexanone

· **Risk phrases:**

- 10 Flammable.
- 20 Harmful by inhalation.
- 36/37 Irritating to eyes and respiratory system.
- 52/53 Harmful 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.

· **Safety phrases:**

- 36/37 Wear suitable protective clothing and gloves.
- 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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.
- 20 Harmful by inhalation.
- 36 Irritating to eyes.
- 37 Irritating to respiratory system.
- 37/38 Irritating to respiratory system and skin.
- 41 Risk of serious damage to eyes.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 61 May cause harm to the unborn child.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

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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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