



Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 08.04.2009

Revision: 04.02.2009

* **1 Identification of substance**

- **Trade name:** NewV poly UP 5000 (41UP5000; 42UP5000; 43UP5000; 49UP5000)
- **MSDS no.** 4,443
- **Application of the substance / the preparation** Printing inks
- **Manufacturer/Supplier:**
Stehlin Hostag Ink UK Ltd.
Unit D4, Linkmel Close
Queens Drive Industrial Estate
Nottingham
NG2 1NA
phone: 0115 9860477 fax: 0115 9862681
- **Informing department:**
Product Safety Department:
phone: 0115 9860477
fax: 0115 9862681
E-Mail : sds@stehlin.co.uk
- **Emergency information:** Mo - Fr 24 h

* **2 Hazards identification**

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**
R 36/38 Irritating to eyes and skin.
R 43 May cause sensitisation by skin contact.

* **3 Composition/information on ingredients**

- **Chemical characterization**
- **Description:**
Preparation of organic and inorganic pigments and/or carbon black
(not valid for unpigmented systems like printing varnishes), synthetic resins (modified acrylates) and additives.
- **Dangerous components:**
which are hazardous within the meaning of statutory order on dangerous substances 67/548/EEC.
CAS: 15625-89-5 2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3- 20 - 30%
EINECS: 239-701-3 Xi; R 36/38-43

CAS: 83846-85-9 4-Benzoyl-4-methyldiphenyl sulphide 5 - 10%
EINECS: 281-064-9 Xi; R 36/38

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CAS: 21245-02-3	2-ethylhexyl 4-(dimethylamino)benzoate	2.5 - 5%
EINECS: 244-289-3	Xi; R 36/37/38-53	
CAS: 57472-68-1	oxybis(methyl-2,1-ethanediy) diacrylate	2.5 - 5%
EINECS: 260-754-3	Xi; R 38-41-43	
	Polyesteracrylat	< 2.5%
	Xi; R 36	
CAS: 28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	< 2.5%
NLP: 500-066-5	Xi; R 36	
	Chlorinated Polyester	15 - 20%
	Xi; R 36/38	

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

4 First aid measures

- **General information**

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

- **After inhalation**

Remove to fresh air.

Keep patient warm and at rest.

- **After skin contact**

Remove contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

- **After eye contact**

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses. Obtain medical attention.

- **After swallowing** Do NOT induce vomiting. Obtain medical attention.

5 Fire fighting measures

- **Suitable extinguishing agents** Alcohol resistant foam, CO₂, powders, water spray.

- **For safety reasons unsuitable extinguishing agents** Water jet.

- **Special hazards caused by the material, its products of combustion or flue gases:**

Exposure to hazardous decomposition products may cause a health hazard.

Appropriate breathing apparatus may be required.

Fire will produce dense black smoke.

Cool closed containers exposed to fire with water.

- **Additional information** Collect run-off from fire fighting.

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6 Accidental release measures

- **Person-related safety precautions:** Ventilate the area.
- **Measures for environmental protection:**
If the product contaminates rivers and lakes or sewages inform respective authorities.
Do not allow to enter drains. If the product contaminates rivers and lakes or sewers inform respective authorities.
- **Measures for cleaning/collecting:**
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations. Clean preferably with a detergent. Avoid use of solvents.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Comply with health and safety at work laws. Avoid concentrations higher than the occupational exposure limits (see Section 8), if applicable.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Keep container tightly closed. No smoking.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- **Further information about storage conditions:**
Always keep in containers of the same material as the original one. Store in a dry, well ventilated place. Keep away from heat and direct sunlight. Store in accordance with the particular national regulations concerning water pollution.
Observe label precautions.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:**
If relevant apply technical measures to comply with the occupational exposure limits. This can be achieved by a good general extraction and - if practically feasible - by the use of a local exhaust ventilation.
- **Components with critical values that require monitoring at the workplace:**
Numerical data - if specified - are taken from the valid national lists.
- **Personal protective equipment**
- **Breathing equipment:**
If the occupational exposure limits can't be met, in exceptional cases suitable respiratory protection should be worn only for a short period of time.

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· Protection of hands:

For prolonged or repeated contact use gloves.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Applicable for example are gloves of KCL GmbH, D 36124 Eichenzell, e-mail: vertrieb@kcl.de with following specification (Laboratory test according EN 374)

Recommend protective glove:

Article / Name /Material / Thickness Material / Breakthrough Time Remarks

Nr. 730/ Camatril Velours / Nitril / 0,4 mm Level 6 > 480 min. by full contact

Nr. 743/ Dermatril / Nitril / 0,2 mm Level 2 > 30 min. by splash contact

This recommendation is only for the product delivered by us and its intended purpose.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Use safety eyewear designed to protect against splash of liquids.**· Body protection:**

All parts of the skin should be washed after contact.

Working clothes must not consist of textiles which show a dangerous melting behaviour in case of fire.

*** 9 Physical and chemical properties:**

· General Information

Form: liquid
Colour: according to the tradename of the product
Smell: characteristic

· Change in condition

Boiling point/Boiling range: 101°C
Flash point: > 100°C
Density at 20°C 1.14 g/cm³
Solubility in / Miscibility with
Water: partly or not miscible

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

Stable under recommended storage and handling conditions (see section 7).

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Materials to be avoided:

Keep well away from oxidising agents and strongly alkaline or strongly acid materials in order to avoid exothermic reactions.

Dangerous products of composition:

Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.

11 Toxicological information

The liquid splashed in the eyes may cause irritation and reversible damage.

The Preparation is classified according to the conventional method (calculation method of the EC-directive 1999/45/EC). Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in skin dryness. The product may be absorbed through the skin.

12 Ecological information:

The Product should not be allowed to enter drains of water courses or soil.

*** 13 Disposal considerations**

Product:

Recommendation Do not allow to enter drains.

European waste catalogue 08 03 12: waste ink containing dangerous substances

Uncleaned packagings:

Recommendation: Not orderly emptied cans and ink remnants are special waste.

14 Transport information

Not classified according to transport regulations for dangerous goods (like ADR/RID, IMDG and ICAO/IATA).

Maritime transport IMDG/GGVSea:

Marine pollutant: No

*** 15 Regulatory information**

Designation according to EC guidelines:

Code letter and hazard designation of product:



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

2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-
oxybis(methyl-2,1-ethanediyl) diacrylate

· **Risk phrases:**

36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.

· **Safety phrases:**

24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of
water and seek medical advice.
29/35 Do not empty into drains; dispose of this material and its
container in a safe way.
37 Wear suitable gloves.

· **National regulations**

· **Technical instructions (air):**

· **VOC-Content (EU):** 0.19 %

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **Mal-Code** 5-5

***16 Other information:**

The information on this Safety Data Sheet is based on the present state of our knowledge and on current EU and national laws. The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the product's properties.

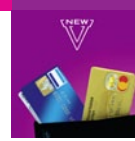
· **Relevant R-phrases**

36 Irritating to eyes.
36/37/38 Irritating to eyes, respiratory system and skin.
36/38 Irritating to eyes and skin.
38 Irritating to skin.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.
53 May cause long-term adverse effects in the aquatic environment.



Technical Information

5.06.01 | 06.2009 | UV-curing inks and varnishes



NewV poly® – UP 5000

The UP 5000 series of UV inks has been developed for sheet-fed offset, rotary label (letterpress) and continuous forms printing on non-absorbent substrates. The UP 5000 series has very good adhesion properties. The UP inks are formulated free of ITX.

NewV poly - UP 5000		Fastness properties per DIN 16 524/25				
Euroscale		Light WS	Alcohol	Solvent mixture	Alkali	UV varnish
Yellow	41 UP 5000	5	+	+	+	+
Magenta	42 UP 5000	5	+	+	-	+
Cyan	43 UP 5000	8	+	+	+	+
Black	49 UP 5000	8	+	+	+	+
Lightfast version						
Yellow	41 UP 5001	7	+	-	+	+
Yellow transparent	41 UP 5002	7	+	+	+	+
Magenta	42 UP 5001	7	+	+	+	+

Special properties

- Good adhesion on non-absorbent substrates
- High colour intensity
- Rapid adjustment of a stable ink / water balance
- Colour shades in accordance with DIN ISO 2846-1/12647-2

Range of applications

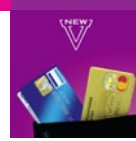
The UP 5000 series is suitable for:

- Pretreated, non-absorbent substrates such as PE, PP, PVC, PS, etc.
- Aluminium-vaporised paper and board* and card stocks
- Aluminium foils*

We recommend application of a UV varnish in order to provide effective protection of the print image (see TI 5.10.02 entitled "NewV lac for UV curing").

* Non-absorbent substrates must have a surface tension of at least 38 mN/m in order to ensure optimum ink adhesion. In view of the large number of substrate suppliers and different substrates and substrate grades available, we recommend you carry out an adhesion test prior to beginning the print run.

The adhesion of UV-curing inks and varnishes to plastic films, cast-coated stocks and pretreated metal surfaces may be negatively influenced by separating agents, lubricants or plasticisers adhering to these surfaces (especially plastic films). (We advise against printing on untreated metal surfaces due to unfavourable adhesion characteristics between UV ink / varnish films and the substrate surface.) Good resistance to the adhesive (Scotch) tape test does not necessarily imply good scratch resistance (nail test). In such cases, overvarnishing with UV-curing varnishes can help improve



scratch resistance. At any rate, UV-cured inks and varnishes must have good tape resistance in order to ensure trouble-free further processing. Due to the differences between the various materials mentioned above, we recommend you carry out tests prior to beginning the print run.

More information

For more information, see TI 5.01.01 entitled “NewV UV-curing inks and varnishes”.

Food and confectionery packaging

More information on the subject of food and confectionery (semi-luxury foods and tobacco) packaging can be found in the information sheet entitled “Printing inks for food packaging” published by the German Printing Ink Manufacturers’ Association and in TI 5.04.01 entitled “NewV UV inks and varnishes for food packaging”.

Printing auxiliaries

The inks are always supplied ready to use. The following auxiliaries are available to help you adjust the process inks in exceptional cases:

- **NewV sup Paste Reducer 40 U 1002 (reduces tack)**
- **NewV sup Activator Paste 40 U 1003**

For further auxiliaries, see TI 5.12.01 entitled “NewV sup UV printing auxiliaries”.

Classification

Safety Data Sheet available on request.

Shelf life

At least 12 months when stored under the correct conditions (20°C, protected against heat and light).

How supplied

2.5-kg cans