



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

Printing date 23.12.2009

Revision: 06.04.2009

1 Identification of substance

- **Trade name:** ACRYLAC SEMI MATT EMULSION 1603/35
- **MSDS no.** 92,159
- **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:** Not a hazardous substance or preparation according to EC-Directives 67/548/EEC or 1999/45/EC.
- **Information pertaining to particular dangers for man and environment** Safety data sheet available for professional user on request.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Preparation of synthetic resins and additives in aqueous system.
- **Dangerous components:**
CAS: 577-11-7 Diocetyl Sodium Sulfosuccinate < 2.5%
EINECS: 209-406-4 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.
- **After inhalation** Remove to fresh air.
- **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.

6 Accidental release measures

- **Person-related safety precautions:** Ventilate the area.
- **Measures for environmental protection:** 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.

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Protect from frost.

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.

· **Personal protective equipment**

· **Breathing equipment:** Not necessary if room is well ventilated.

· **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

· **Flash point:** > 100°C

· **Density at 20°C** 1.01 g/cm³

· **Solubility in / Miscibility with**

Water: completely miscible with water

Organic solvents: < 0.06 %

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** Stable under recommended storage and handling conditions (see section 7).

· **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 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 08:aqueous liquid waste containing ink

· **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).

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- Maritime transport IMDG/GGVSea:
- Marine pollutant: No

15 Regulatory information

- **Designation according to EC guidelines:**
Observe the normal safety regulations when handling chemicals
Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.
- **Special designation of certain preparations:** Safety data sheet available for professional user on request.
- **National regulations**
- **Technical instructions (air):**
- **VOC-Content (EU):** 0.50 %
- **Mal-Code** 1-3

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**
36/38 Irritating to eyes and skin.



ACRYLAC[®] Semi Matt Emulsion 57 1603/35

Water-based emulsion coating

Application

For wet-on-dry and wet-on-wet coating in sheet-fed offset presses with coating unit.
Recommended drying equipment: hot-air blower and extraction unit

Substrate

Paper/board

Special properties

Quick drying, good wet-blocking resistance and good rub resistance.
Suitable for double-sided printing. Anti-curling properties.
(Please also note section entitled "Special instructions" on page 2.)

Specifications

	57 1603/35
Viscosity / draining time s ¹⁾	approx. 35 s
pH	7.4 – 8.4
Density	1.02 g/ml
Double-sided printing	yes
Heat-sealing resistance, uncoated PP film ²⁾ (Acrylate-coated films are not suitable)	good
Rub resistance	good
Application rate, wet ³⁾	4 – 8 g/m ²
Thinner	water

¹⁾ As-delivered viscosity at 20°C, well stirred (draining time per DIN 53 211, 4-mm Ø nozzle)

²⁾ Test conditions: 130°C, 1 s; 0.5 bar / coated cellulose board, preprinted with oxidative-drying ink

³⁾ depending on applications process, substrate and ink coverage

Cleaning

We recommend you use ACRYLAC[®] Cleaner 10 T 0045 to clean rollers, rubber blankets, forme cylinders, etc. (see the instructions for use and Technical Information sheet 10.9.01).

To achieve a consistent print result, we recommend you regularly perform a thorough washup of all rollers when using screen rollers.

Auxiliaries

Various auxiliaries are available to help you apply the water-based emulsion coating:

ACRYLAC® Cleaner 10 T 0045	- see Technical Information sheet 10.9.01
Retarder / Anticrazing Agent 10 T 0422	- see Technical Information sheet 10.9.03
Defoamer 10 T 0423	- see Technical Information sheet 10.9.03
Wetting Agent / Thickener 10 T 0690	- see Technical Information sheet 10.9.03

Special instructions

Water-based emulsion coatings are generally slightly alkaline. The offset inks used must therefore be alkali-resistant (DIN 16 524, Part 2). One exception to this is the process ink colour magenta: despite their low level of alkali fastness, these inks can be overcoated with water-based emulsion coatings without any problem.

The coated surfaces can be glued and are suitable for finishing with stamping film (depending on the adhesive, stamping film and processing conditions; we recommend you carry out a test under field conditions beforehand).

Heat-sealing resistance and heat resistance depend upon many parameters, which is why we recommend you carry out tests under field conditions in this regard, too.

If there is a possibility of the package contents or external influences (e.g. moisture, detergents, grease, etc.) having potentially negative influences on the print, you must likewise conduct appropriate tests to determine suitability.

If the coating film becomes affected by moisture (e.g. by the water-based adhesive when laminating), there is a strong possibility of it causing blocking. In such cases, we recommend you use ACRYLAC®^{Plus} High Perfection 570 162/40 instead (see TI 10.5.36).

Please refer to Technical Information sheet 10.5.01 for general application instructions and further information about the drying process.

The coating has a shelf life of 6 months from delivery if the container is not opened. After opening the container, the coating should be used up as quickly as possible.

The water-based emulsion coating must be stored in its original container in a dry, cool but frost-free place. Storage temperatures higher than 30°C have the negative effect of causing the coating to thicken and must therefore be avoided.

Stir well before use.

Information about printing food packaging

This water-based coating is not specifically formulated to ensure low migration. For this reason, we recommend this coating for manufacturing food packaging **only if** the transfer of constituents from the coating film to the foodstuff (by means of migration or invisible set-off) can be **ruled out** owing to the composition of the packaging and the processing conditions.

The manufacturer or marketer of the packaging must ensure this is the case by carrying out appropriate migration tests on the finished packaging.

For further information, please consult the EuPIA customer information leaflet "*Printing Inks for Food Packaging*", the **hubergroup** statement "*Note regarding the use of standard inks and varnishes for the manufacture of food packaging*", and/or our website www.futurepack.de.

Safety Data Sheet available on request.

How supplied

- 25-kg plastic canisters
- 600-kg returnable plastic containers

For contact addresses for advice and further information: www.hubergroup.de

This technical information reflects the current state of our knowledge. It is designed to inform and advise. We assume no liability for correctness. Modifications may be made in the interest of technical improvement.