SAFETY DATA SHEET
ACRYLAC HEAT RESISTANT GLOSS COATING

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: ACRYLAC HEAT RESISTANT GLOSS COATING

PRODUCT NO.: 57099140

APPLICATION: Waterbased Emulsion Coating

SUPPLIER:
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2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
Acrylic Resin Solution			<30%	-
Aqueous Wax Dispersion			10-15%	-
Glycol			10-15%	-
Polymer Emulsions			40-50%	-

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION

No Symptoms Consult a doctor

INGESTION

There may be irritation of the throat. Wash out mouth with water

SKIN CONTACT

There may be mild irritation at the site of contact. Wash immediately with plenty of water and soap and rinse thoroughly.

EYE CONTACT

There may be irritation and redness Bathe the eye with running water for 15 minutes

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials. Use water spray to cool containers.

SPECIFIC HAZARDS

In combustion emits toxic fumes

PROTECTIVE MEASURES IN FIRE

Wear self contained breathing apparatus. Wear Protective clothing to prevent contact with skin and eyes.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Refer to protective measures listed in sections 7 and 8. Turn leaking containers leak side up tp prevent the escape of liquid.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Contain the spillage using bunding.

SPILL CLEAN UP METHODS

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7 HANDLING AND STORAGE

STORAGE PRECAUTIONS

Store in cool, well ventilated area. Keep container tightly closed.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY EQUIPMENT

Respiratory protection not required.

HAND PROTECTION

Protective gloves are recommended.

EYE PROTECTION

Safety glasses. Ensure eye bath is to hand.

SKIN PROTECTION

Protective clothing should be worn.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	White		
ODOUR	Mild Ammonial		
SOLUBILITY	Miscible with water.		
VISCOSITY	viscous	FLASH POINT (°C)	>100

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat.

MATERIALS TO AVOID

Strong oxidising substances. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

In combustion emits toxic fumes

11 TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY

Refer to section 4 for routes of exposure and corresponding symptoms

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Negligible ecotoxicity

MOBILITY

Readily absorbed into soil

BIOACCUMULATION

The product is not bioaccumulating.

DEGRADABILITY

The product is biodegradable.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

14 TRANSPORT INFORMATION

GENERAL	Not classified according to transport regulations for dangerous goods.

15 REGULATORY INFORMATION

RISK PHRASES

NC	Not classified.

SAFETY PHRASES

NC	Not classified.

UK REGULATORY REFERENCES

Note - the regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16 OTHER INFORMATION

ISSUED BY

B.A Hayden HSQE Manager

SDS NO. 10749

SAFETY DATA SHEET STATUS

Approved.

DATE 16/02/10

Technical Information

8.01.2010 | Packaging printing | Offset printing

ACRYLAC® HEAT RESISTANT GLOSS 57099140

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

Excellent heat resistance (short-term up to 250°C, depending on the conditions), very fast drying. Excellent rub resistance and wet-blocking resistance.
Suitable for double sided coating.
(Please also note section entitled "Special instructions" on page 2.)

Specifications

	57 0991/40
Viscosity / draining time s [1)]	approx. 40 s
pH	8.0 – 9.0
Density	1.02 g/ml
Double-sided printing	yes
Heat-sealing resistance, uncoated PP film [2)] (Acrylate-coated films are not suitable)	outstanding
Rub resistance	outstanding
Application rate, wet [3)]	4 – 8 g/m²
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 are conditionally suitable for gluing and for finishing with stamping film (depending on the adhesive, stamping film and processing conditions; you must carry out a test under field conditions beforehand).

Heat-sealing resistance and heat resistance depend upon many parameters, In addition to the exposure time, the pressure and the tool material, the heat resistance property of the print product is also influenced by the substrate, the ink, the drying characteristics of the ink and the residual moisture content, which is why we recommend you carry out tests under field conditions in this regard.

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.

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.

Note with regard to printing of food packaging

This dispersion varnish is not formulated for low migration. It can be recommended for the manufacture of food packaging only if transfer of ingredients from the varnish layer to the food (by migration or invisible set-off) is excluded by suitable packaging design and appropriate processing conditions.
If this is not the case, we recommend the use of ACRYLAC® -MGA dispersion varnishes which have been formulated specifically for low-migration properties.

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> <<http://www.futurepack.de>>.

Safety Data Sheet available on request.

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