

Printing inks for *feeding bottles*

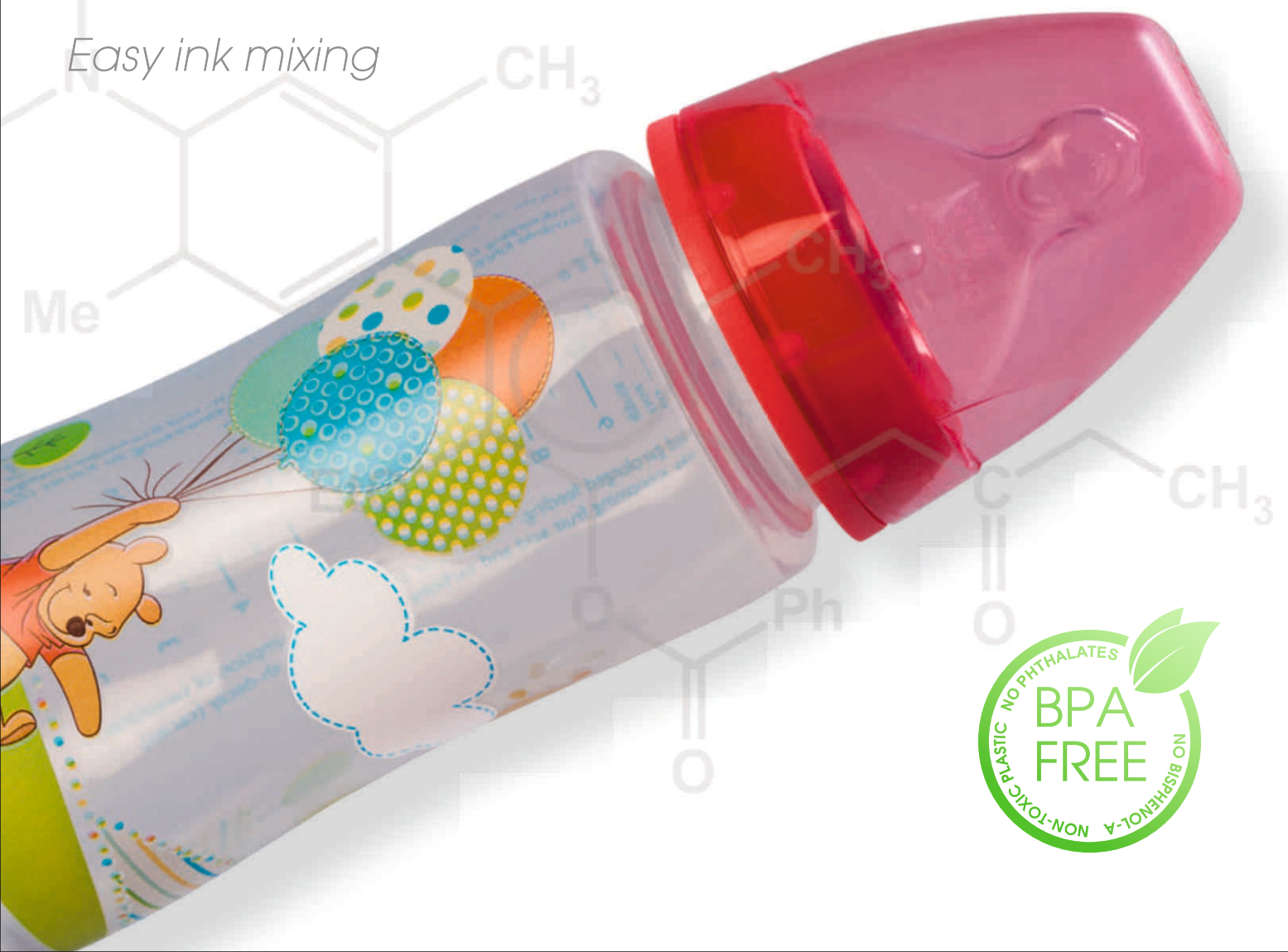
U.V. Curing

Reach Compliant

BPA Free

Low Migration

Easy ink mixing



Low-migration



In addition to meeting aesthetic and commercial requirements, packaging for food, cosmetics and pharmaceuticals also has the special task of protecting the products against external influences. Minimising the transition of components from the packaging material to the products is crucially important in this regard. As a specialist supplier, RUCO recognised this importance early on and therefore developed low-migration (LM) printing inks to cater to the needs of the packaging industry. The formulation of these low-migration inks is such that, provided they are used correctly, they comply with the migration threshold values for the substances in question.

What exactly do the terms “migration” and “low-migration mean”?

Migration is the movement of material components from the packaging material to the product contained therein. A distinction is made between two types of migration:

Penetration: The constituent migrates from the outer surface of the packaging through the packaging into the product.

Set-off: The printing ink sets off to the food-contact surface when in the stack or on the reel.

Low-migration means that only those raw materials are used that have a minimal level of migration or do not migrate at all under normal processing, storage and conditions of use. This is particularly important for food packaging decoration.

What is the importance of “BPA free inks”?

An organic chemical which is Bisphenol-A (BPA) is commonly used in plastics like Polycarbonate and epoxy resins. Toxic effects of BPA are well documented in medical literature. The disruption of hormones due to its effects lingering over generations, is forcing the feeding bottle industry to avoid BPA. Most Polycarbonates contains BPA hence PC is now banned. The inks and its chemicals used in printing cannot contain BPA for the manufacturer to claim the bottle as BPA free.



Migration of Inks is the penetration of inks from outside to the inner side where the food or cosmetic is in the contact. Therefore, low migration inks are required to print on the feeding bottles for babies.



UV screen printing inks for plastic bottles low-migration



945UV/MA

Your benefits

Low-migration and barium-free

Developed especially for the highly delicate field of baby bottle decoration and printing onto the outer surface of food packaging made of PET

High gloss and excellent printability

Use on all standard high-speed screen printing machines

Dishwasher and sterilization-resistant as well as water and steam-resistant

Excellent resistance to fill products

No bleeding of ink through the mesh

High yield and reduced ink waste

Very good reactivity and adhesion to substrates such as ABS, PC, PS, PVC and pretreated PE, HDPE, PP, PA, PET, PETG

Printing of feeding bottles, cosmetics and medical containers

Product range

10 basic colour shades and transparent white

Process colours for 4-colour set

Highly opaque white and black

Low-migration UV overprinting varnishes for UV screen printing

Vibrant colours

Conformity Certificate for Ruco UV Screen Printing Inks

Requirements fulfilled

945UV/MA

Nestlé-konform - Nestlé Guidance	
Printing on the non-food-contact side of food packaging, Regulation (EU) 1935/2004, Article 3	x
AfPS GS 2014:01 PAH Cat. 1	n.tested
USP guidelines for Medical Class VI (21 CFR part 58)	
BPA free (4,4'-Isopropylidendiphenol)	x
Chlorine-free	
Free of cyclohexanon and aromatic solvents	x
Free of phthalates Directive 2005/84/EC and REACH-Regulation (EC) 1907/2006 Annex XVII	x
Toy Safety EN 71-3:2014-12 Teil 3 ⁽¹⁾	
Toy Safety EN 71-9:2007-09 ⁽¹⁾	
EuPIA-Exclusion policy	x
Swiss Ordinance 817.023.21 Annex 10	x
RoHS, Directive 2011/65/EU and Directive 2015/863/EU	x
GADSL	x
Barium free	x
Fluorine free	x
Bromine free	x
Silicone free	
VOC China (g/kg) ^{(1),(2)}	0.7





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Limited rights in middle East

www.spinksworld.com,
info@spinksworld.com,
info@rucoinks.com

RUCO Druckfarben, A. M. Ramp & Co GmbH

Lorsbacher Straße 28 65817 Eppstein
Telefon: +49 61 98 30 40 Telefax: +49 61 98 3 22 88
info@ruco-inks.com www.ruco-inks.com