



CHEMICALS

FOR PRINTING INDUSTRY

**SUPPORTED BY
MANUFACTURER OF CHEMICALS FOR PRINTING**



2021

GENERAL INFORMATION

You will find on the next pages printing chemical formulations (Standard Range) of our formulation service. Due to the current raw material price situation, we have not given any raw material price of the formulations for the first time in this annual publication.

Huge demands for green and bio-based chemical products and stringent new regulation for environmental protection and products with a better Health and Safety profile, mainly required in Europe and some Asian countries, were the reason that we replace many standard product formulations with Green alternative chemical solutions.

You should pay particular attention to our new, unique water based cleaning and Blanket and Roller Washes. High quality product performance, better Health and Safety Profile and much cheaper raw material cost like standard products for this application.

We don't use in this list formulations with content of White Spirit or aromatic solvents too concerning the very bad Health and Safety Profile of this products. If you still need product formulations based on aromatic solvents and white spirit please contact us. We have all formulations available.

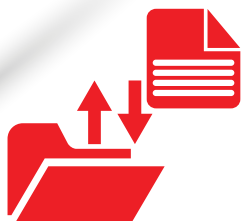
Please note,

Production of the chemicals in this list is in place with standard propeller stirrer, no high shear stirrer are required.

The formulation from us in this publication are in line with the latest environmental and safety requirements and our developed printing chemical formulations are believed to be of the highest quality on the world market with the best value for money. Fountain solution formulations content Biocides which meet the latest requirement for the new Biocide regulation (1. May 2020) for founts. We replace in all formulation (mainly used in Founts and UV Washes) the product Butyl Glycol also known as 2-Butoxyethanol (CAS-No. 111-76-2). Butyl Glycol is used in the most cleaning agent of UV washes and in fountain solution and is now classify as acute Toxicity Category 3 (H311 toxic on skin contact). This means Butyl Glycol/2-Butoxyethanol and products with a content of this chemical has marked with "skull and cross bones" Hazard labelling GHS06. FOGRA and ISEGA approvals and certificates are not available for products with a content of Butyl Glycol/2-Butoxyethanol anymore.

Hitec Lab is the frontrunner in replacing hazardous chemicals in the printing industry. Our unique, high quality product formulations are based on the latest technology and are characterised by a high degree of innovation and sustainability respective of our raw material used in our formulations. **Excellent Health and Safety Profile, Environmental impact and Sustainability of our chemical formulations is an integral part of our innovative chemical strategy.**

SERVICES



TECHNOLOGY – 100 % FORMULATION TRANSFER

We can support you with all needed chemical formulations for the printing industry. From economical to the highest available product formulations. With all available approvals/certifications like Fogra, Heidelberg, Manroland, KBA, Baldwin and ISEGA or BGTEM if needed.



CUSTOMIZED FORMULATIONS

May you have identified an idea for a new chemical product to meet market requirements then we could develop this chemical product for you up to product launch. Our focus is to add value to every product development and our expertise in the world market of printing chemicals means we spend any time learning on your project



CHEMICAL CONSULTANCY

We offer expertise to start up and existing chemical producer engaged in the design and manufacture of chemicals for the printing industry. From Regulatory Compliance to prices of chemical raw materials, from production process to product application. We can support you and you can be sure our worldwide experience and knowledge save your money.

ISEGA

CERTIFICATION



If you are looking for certification/approvals for your own developed chemical product, we can do this for you. We can test your product in our lab and organise everything for your product certification/approval for you. You will be sure that your product will pass the approval test.



**MADE IN
EUROPE**

COMPLIANCE WITH EUROPEAN NORMS AND STANDARDS

All products, used raw materials and technologies meet European standards and requirements.

CHEMICALS



OFFSET PLATES CHEMICALS

*DEVELOPERS, REPLENISHERS, CLEANERS
CLEANERS, ACTIVATORS, GUMING SOLUTIONS*



FOUNTAIN SOLUTIONS

*FOUNTAIN SOLUTIONS SHEETFED
FOUNTAIN SOLUTIONS **COLDSET/HEATSET***



CLAENING AND WASHING SOLUTION

BLANKET AND ROLLER WASHES



Hitec DEV UTR-104

DEVELOPER FOR CtCP(CTcP-UV) PLATES

Developed and specially recommended for CTcP-UV plates.

- does not leave precipitate in processors
- the chemical formula ensures that the plates are interchangeable with the most popular plates on the market, without the calibration each time - is characterized by effective operation and high efficiency



Hitec DEV DC-105

HIGHLY CONCENTRATED DEVELOPER FOR OFFSET PLATES

Highly concentrated developer for offset plates. The developer concentrate is based on chemicals of new generation.

- increased cleanliness during work,
- more convenient 1 + 5 dilution, which will not allow you to make a mistake when diluting the concentrate with water,
- no stratification and no specific smell of the concentrate,
- increased product performance.



Hitec Dev-XS

DEVELOPER FOR CTP PLATES

Universal premium developer for today's ctp plates, content plate aluminium protection and anti-sludge additive.

- excellent developing results,
- very high buffer capacity, effective protection of the plate image,
- low consumption,
- very good dot protection,
- long lasting developer.



Hitec Rep-XS

REPLENISHER FOR CTP PLATES

The replenisher is only used by small plate consumption in the processor of around 40 plates per day.

- prevents undesired attack on the aluminium,
- no sludge in the developing machine,
- low consumption,
- very good dot protection,
- long lasting developer.



Hitec Dev-XL

DEVELOPER FOR CTP PLATES

Specially developed CtP Replenisher for Chinese thermal CTP plates.

- excellent developing results,
- very high buffer capacity, effective protection of the plate image,
- low consumption,
- very good dot protection,
- long lasting developer.



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Hitec Rep-XL

REPLENISHER FOR CTP PLATES

Specially developed CtP Replenisher for Chinese thermal CTP plates.

- prevents undesired attack on the aluminium,
- no sludge in the developing machine,
- low consumption,
- very good dot protection,
- long lasting developer.



Hitec GUMer

GUMMING SOLUTION FOR ALL TYPES OF PLATES

Gum for all offset plates, especially for ctp plates. High quality, very clean Gum Solution, buffered at a pH value 5.5.



Hitec Bath Cleaner

OFFSET PLATE PROCESSOR BATH CLEANER

Liquid for washing developing machines and cuvettes for developing offset plates. Hitec Bath Cleaner is also recommended for cleaning devices developing photographic foils and for all types OF PLATES.

Perfectly clean the offset plate processor easier, faster and more user friendly, suitable for CTP, Ctcp and conventional offset plate processor. It is also suitable for cleaning deposits on silver photo processors and photo labs. It can be used in all types of offset processors.



Hitec Activator XS

OFFSET PLATE CLEANER AND ACTIVATOR

Activate quickly and completely opens all types of metal offset plates, even after long periods of storage. Remove surface scratches, oxidation spots, semi-dried ink and gum streaks which reduce print quality. Hitec Activator XS restores the ink receptive surface. Just apply and rinse. Clean plates "on the fly" on web offset presses to minimize downtime, extend plate life and increase the number of impressions per plate.



Hitec Activator XL

OFFSET PLATE CLEANER AND ACTIVATOR (STRONG)

Activate quickly and completely opens all types of metal offset plates, even after long periods of storage. Remove surface scratches, oxidation spots, semi-dried ink and gum streaks which reduce print quality. Hitec Activator XS restores the ink receptive surface. Just apply and rinse. Clean plates "on the fly" on web offset presses to minimize downtime, extend plate life and increase the number of impressions per plate.

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Hitec Fount FL

FOUNTAIN SOLUTION SHEETFED, IPA REDUCE / High Quality

Highest quality formulation of fountain solution sheetfed for alcohol free printing, content corrosion inhibitor.

*Dosage: 3-4 % / Recommended IPA dosage 0-2 %
VOC (Volatile Organic Compounds) content: 8.6 %*



Hitec Fount FS

FOUNTAIN SOLUTION SHEETFED / Economical

Highest quality formulation of fountain solution sheetfed for alcohol free printing, content corrosion inhibitor.

*Dosage: 2-3 % / Recommended IPA dosage 6-8 %
VOC (Volatile Organic Compounds) content: 8,5 %*



Hitec Fount CS

FOUNTAIN SOLUTION COLDSET / High Quality

Highest quality formulation of fountain solution sheetfed for alcohol free printing, content corrosion inhibitor.

*Dosage: 2-3 % / Recommended IPA dosage 6-8 %
VOC (Volatile Organic Compounds) content: 8,5 %*



Hitec Fount HS-UN

FOUNTAIN SOLUTION HEATSET / High Quality

Highest quality formulation of fountain solution sheetfed for alcohol free printing, content corrosion inhibitor.

*Dosage: 2-3 % / Recommended IPA dosage 6-8 %
VOC (Volatile Organic Compounds) content: 8,5 %*

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Hitec RED SPIRIT ALCOHOL ISOPROPYL

The highest grade lithographic Isopropyl Alcohol IPA(92-98%), which conforms to certificate of conformity. This Isopropyl Alcohol IPA is certified Grade A and ensures consistent press performance and extended roller life.

Density: 0.78 - 0.80 g / ml
Refractive index: 1,3760 - 1,3780



Hitec Demi CW DEMINERALIZED WATER

Specian water, prepared by Reverse Osmosis (RO) system which removes many types of large molecules and ions from water by applying pressure to the water when it is on one side of a semi-permeable membrane. The result is that the solute is retained on the pressurised side of the membrane and the pure water is allowed to pass to the other side.
The hardness is 8 - 12 odH



Hitec AntiCalc CALCIUM REMOVER

HITEC ANTICALC is developed for cleaning calcium and magnesium salt accumulated on the rollers. The amount of calcium and magnesium salts in the water determines the water hardness. When the hard water mixed with fountain solution concentrate, salts cause calcium and magnesium accumulation on the rollers and blankets.

- Prevents calcium and magnesium deposits on the rollers and blankets. Helps ink transfer



Hitec Rehardner CONCENTRATE FOR REVERSE OSMOSE OR SOFT WATER

Addition of 0.5 % of the Hardening Concentrate to RO or very soft water increase the German hardness up to 10-11 dH. Product is based on magnesium and calcium acetate.

No dangerous good
(No Health, Physical or Environmental Hazard)



Hitec Biocide SPECIAL BIOCIDE FOR PRINTING INDUSTRY

Aqueous solution of Isothiazolinones and (Ethylenedioxy)dimethanol.

For the preservation of aqueous technical preparations such as fountain solutions, cleaners and detergents and similar products.

The combination of the actives provides a broad spectrum of antimicrobial activity against bacteria, mould and yeasts.

Use biocides safely



Hitec Defoamer

ANTI-FOAMING AGENT FOR PRINTING INDUSTRY

Non-silicon based defoamer, promotes good wetting and long lasting foam control without the side effects of traditional anti foaming agents.

Dosage: 0.03 %

No dangerous good

No Health, Physical or Environmental Hazard



Hitec Cross Cleaner

HIGH CONCENTRATED PRESSROOM CLEANER

Used in Sheetfed, Cold- and Heatset, Rotogravure and Flexo printing. Very strong and excellent cleaning power. Removes all kind of ink deposit, glue and oil/fatty deposit, water based and UV varnish, caked and glue residues from gluing machines. Can be used for cleaning of press frames, floors and general cleaning too.

Content corrosion inhibitor.



Hitec F-Cleaner

CLEANER FOR DAMPENING SYSTEM

World's first biocide free system cleaner, shows better cleaning and better prevent performance like traditional cleaner with a content of biocide.

1 + 6 with water, when cleaning all 3-4 months 1 + 12 with water, by cleaning all 2-3 weeks

VOC (Volatile Organic Compounds) content: 4 %.

Content corrosion inhibitor.

Probably the best cleaner for this application on the market.



Hitec R-Cleaner

CLEANING CONCENTRATE FOR DAMPENING(FOUNTAIN SOLUTION CIRCULATION) SYSTEM

Addition of 0.5 % of the Hardening Concentrate to RO or very soft water increase the German hardness up to 10-11 dH. Product is based on magnesium and calcium acetate.

No dangerous good

(No Health, Physical or Environmental Hazard)



Hitec MRC

METERING ROLLER CLEANER

Very strong and excellent Metering Roller Cleaner - a powerful degreaser and ideal for bareback dampeners and other areas where fast evaporation is necessary to prevent wash contamination and hence slow start-ups due to scumming etc.

Hitec MRC has been specifically formulated for press applications.



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Hitec Re-Gummer

- Very high solvency power
- Removes also stubborn residues and glaze
- Rejuvenating additives:
- Give back to the blanket its former smooth surface
- Fast evaporation rate without greasy residues
- Does not leave sticky a surface on blankets



Hitec AutoWash

BLANKET AND ROLLER WASH FOR AUTOMATIC SYSTEMS

- Traditional water mixable and corrosion inhibited Blanket and Roller Wash.
- With high solvent power excellent ink removal
- With full corrosion inhibition safe for press
- Safe for rubber rollers and blankets
- No residue on the blankets
- Minimum odour



Hitec PowerWash

BLANKET AND ROLLER WASH FOR SHEETFED FOR MANUAL APPLICATION

Hitec PowerWash is a strong for cleaning ink rollers and blanket in sheetfed presses. Hitec PowerWash is based on the latest Chemical Technology.

- Excellent and strong cleaning power (deep cleaning)
- Remove ink, paper dust and calcium deposit on rollers and blankets
- Corrosion inhibited
- Flash point > 42 °C



Hitec Wash Pro

REGENERATOR AND PROTECTOR OF RUBBER COATINGS ON TRANSPORT ROLLERS

An agent which cleans, regenerates and protects rubber coatings on rollers and rollers that feed and transport paper.

- Does not cause the rubber layer to swell
- Safe and economical to use
- Excellent and strong cleaning power (deep cleaning)
- Remove ink, paper dust and calcium deposit on rollers and blankets



Hitec Air Wash

BLANKET AND ROLLER WASH FOR SHEETFED FOR MANUAL APPLICATION

A medium drying, high solvent power wash formulated for use medium to large system. It is non-water miscible blanket and roller wash. It is combined full corrosion inhibition and plasticizer to meet demand of the big machine manufacturer.

- With full corrosion inhibition safe for press
- Safe for rubber rollers and blankets
- No residue on the blanket



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Hitec UV Wash

CLEANING AGENT FOR UV INKS

High solvent power wash formulated for the cleaning of UV curable inks from blankets, rollers. It is designed as environment and human friendly. Hitec UV Wash is combined full corrosion inhibition and plasticizers to meet demand of the big machine manufacturer. Hitec UV Wash is also suitable for conventional inks.



Hitec Combi Wash

BLANKET AND ROLLER WASH FOR AUTOMATIC SYSTEMS

- Water based and corrosion inhibited Blanket and Roller Wash.
- Biodegradable
- Odorless
- Safe rubber rollers and blankets
- No residue on the blankets
- No Health, Physical or Environmental Hazard



Hitec Anilox Cleaner

ANILOX CLEANER

This is an excellent cleaner for flexo printing inks and coatings. Odourless, water mixable, less consumption, MOSH and MOAH free Anilox Cleaner

- Water based alkali cleaner
- Excellent cleaning ability for water based flexographic printing
- Used for flexo ink and varnishes
- Economical usage



Hitec Flex Cleaner

CLEANER FOR PERIODICAL WASHING

For water and solvent based flexo inks, odourless, water mixable, less consumption, MOSH and MOAH free.

- No foaming at cleaning system
- This product is also used for cleaning of UV ink systems
- for UV and Hybrid ink rollers



Hitec Powder

ANTI-SET OFF SPRAY POWDER

Antiset off powder performs exceptionally well in electronic unit and air guns and can be overprinted, over varnished and do not affect the printing plate or associated machinery. Uncoated powders are hydrophilic, so accepting water and repelling greasy substances such as printing inks. Coated powders are hydrophobic, repelling water and seeking out greasy substances thereby keeping printed sheets from blocking.



Hitec Saniseptol

SOLUTION FOR HYGIENIC HAND DISINFECTION

"Solution for hygienic hand disinfection.

Liquid hand sanitizer Hitec Saniseptol characterized by high efficiency. Bactericidal activity (Tbc), fungicidal and virucidal (HIV).

Preparation for hand sanitizer combines the advantages of disinfectant and nourishing the skin.

Glycerin is contained inside the disinfection liquid cares and protects hands from drying (pH 6.5-7.5).

Product for disinfecting hands is ready to use, requires no dilution.

Hand Disinfectant based on isopropanol, which is responsible for immediate action against all microorganisms."



Hitec Graffiti Remover

GRAFITTI REMOVER

This is an excellent cleaner for flexo printing inks and coatings. Odourless, water mixable, less consumption, MOSH and MOAH free Anilox Cleaner

- Water based alkali cleaner
- Excellent cleaning ability for water based flexographic printing
- Used for flexo ink and varnishes
- Economical usage

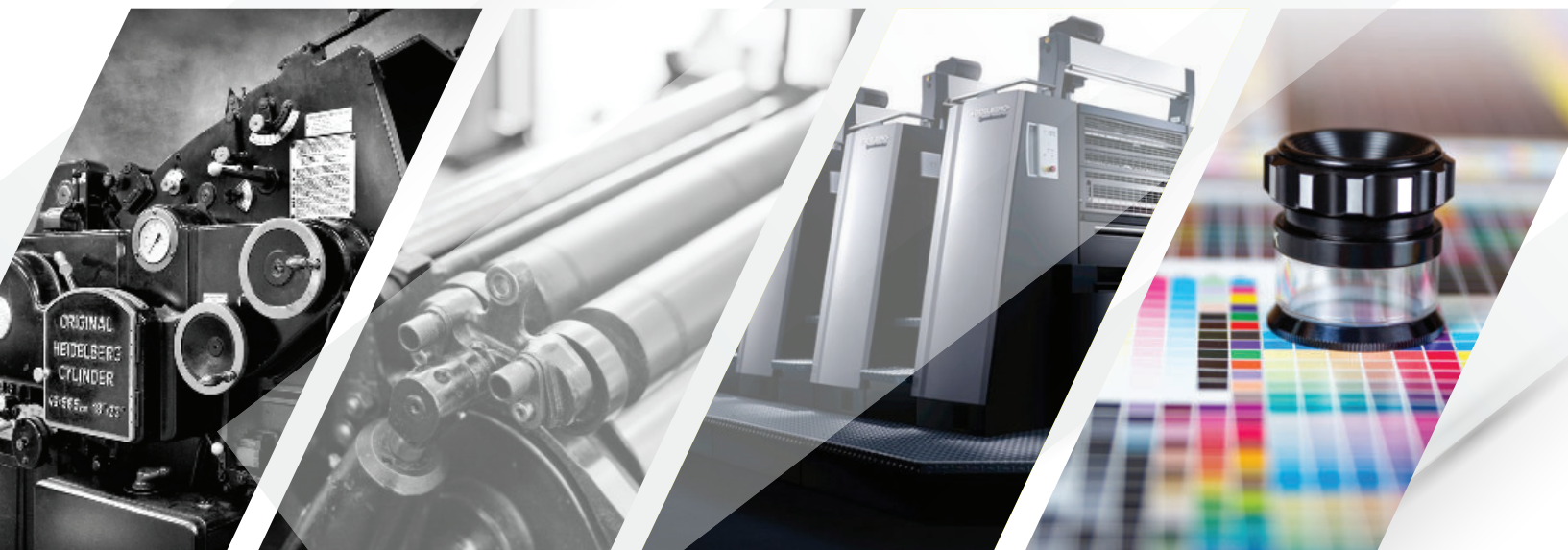


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NOTES





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HITEC LAB SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ
ul. NA POLACH 11A /18
31-344 KRAKÓW

www.hitec-lab.com

email: customer.service@hitec-lab.com

tel/fax.: +48 123 07 92 00

mob.: +48 690 07 92 00