

CID LINES' complete hatchery program

Increase your benefits by protecting your poultry



v1.0
USA
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CID LINES[®]
Believe in hygiene!

BVS BEST
VETERINARY
SOLUTIONS, INC.
QUALITY ANIMAL HEALTH & HYGIENE

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CID LINES

Your supplier of added value



CID LINES, established in 1988, is a Belgian manufacturer of hygiene chemicals. Our mission is to guarantee safe food from farm to fork by offering innovative hygiene solutions. We develop and manufacture cleaning agents, biocides and veterinary medicines for animal production, food processing and transport industries. Our corporate identity is based on 3 strong values: entrepreneurship, safety and personal relationships.

In our GLP accredited laboratories, specialized chemists, engineers and pharmacists work on the development and continuous improvement of formulations and processes. The most stringent quality standards (ISO 9001:2008 and GMP Pharma) are being followed in production and quality assurance. All our products meet the European biodegradability's standards.

CID LINES has subsidiaries in Poland, France, Spain, UK, the Middle East, China and Latin America and exports to more than 90 countries in 5 continents. This worldwide recognition is your guarantee for quality and return. More than ever, hygiene will be a primary management tool to increase profitability on farms.

Due to the higher animal density on farms and increased productivity of animals, the infection pressure has increased dramatically. Many studies, field trials and experiences have clearly proven that preventive health care is more economic than curative health care. Hygiene is the most cost effective option for disease prevention.

Find out what biosecurity management can mean for you.

'Biosecurity' on hatcheries comprises all measures taken to **minimize the risk of the introduction and the spread of infectious agents**. By taking measures, hatcheries try to protect their production site against diseases in the best possible way. 'In the best possible way', because even with an excellent management it is impossible to achieve a zero risk of disease outbreaks (*Graham et al., 2008; Butcher en Miles, 2012*).

When explaining biosecurity, a distinction is made between external and internal biosecurity. External biosecurity has to do with hatcheries keeping in touch with the outside world and trying to prevent disease-causing agents from entering or leaving the hatchery. Internal biosecurity comprises measures which combat the spread of disease within the hatchery.

Disease outbreaks result in major economic losses to the poultry industry. Especially when measures such as quarantine or the destruction of whole flocks need to be applied (*Carey et al., 2005; Tablante, 2008*). They affect the individual farm but may also affect the whole production chain including the hatcheries.

Improving biosecurity at hatchery level and thus lowering the risk of disease outbreaks, has several positive effects. First there is the safety of the produced animal product (cf. *Salmonella* problem). Second, there is also an improvement in animal welfare due to less disease. Finally and perhaps the most interesting advantage for the farmer is the financial benefit of a disease-free production cycle. Less disease means less veterinary costs and better production results (Laanen et al., 2011).

An ounce of prevention is worth a pound of cure.

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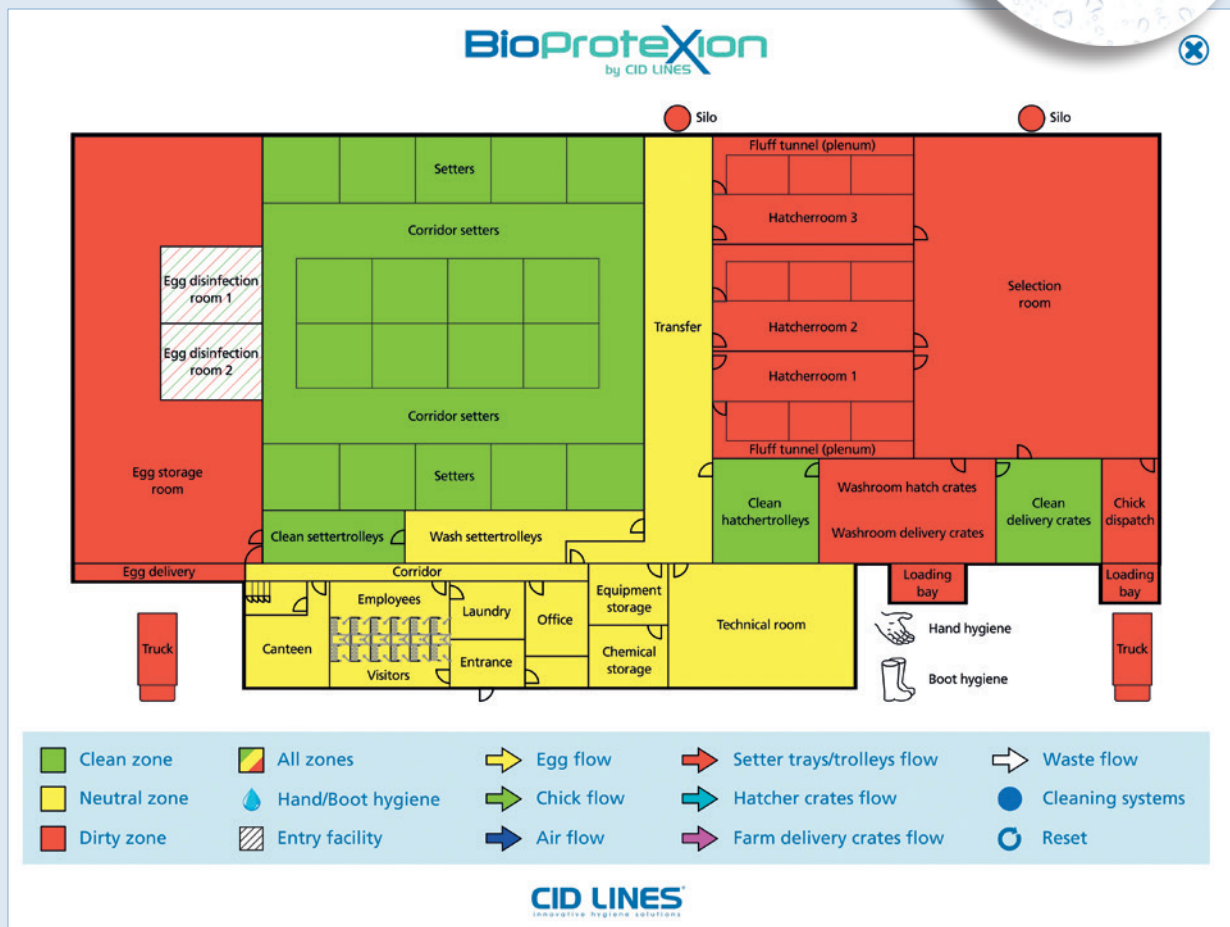
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» Interactive training for hatchery hygiene

Solutions for material friendly cleaning, highly effective disinfection, securing hygienic transfers, hand hygiene, washing crates and trolleys are available through our range of products.

More information about hatchery hygiene and our products is available on our DVD: "Interactive training for hatchery hygiene".



Cleaning and disinfection equipment

CID LINES offers a broad range of high quality cleaning equipment devices. They are especially designed for the daily use in hatcheries.

From mobile cleaning and disinfection units which are easy to use and trustworthy, to total concepts (new projects) where customized solutions for cleaning and disinfection installations are required.

Personal hygiene

Boot, hand and clothing hygiene

The most discarded and forgotten measurement on the hatchery – whilst it is probably the fastest, most simple and cheapest in order to prevent spread of bacteria – is to disinfect footwear and sanitize hands with anti-bactericidal hand soap. A very small effort that really should become an automatism among farmers and workers

because recent studies have again clearly proven that farm boots samples are an important risk factor with a *Salmonella* prevalence of **19.7%**! (*Prev. Vet Med.*, 2011).

» Virocid® / Keno™ X 5

If foot dips baths are adequately used and located on strategic places, they are a good additional measure for the biosecurity of the hatchery. Additionally, the presence of foot baths draws the attention of staff and visitors to the importance of biosecurity (*Amass et al.*, 2000; *Pritchard*, 2003)

Keno™ X 5 is a peroxide disinfectant with a **very fast action** (within seconds), ideal for foot dips and animal house disinfection. Very environmentally friendly! The ideal alternative to with Virocid® for this application.

› Packing: Keno™ X 5: 2.6 gal



Hatchery hygiene



The hatchery, as a segment of the poultry production chain, aims to produce vital chicks or poults that are free of pathogens. Good cleaning and disinfection (C&D) procedures within the hatchery are necessary to reduce and continually minimize the level of microbiological contamination, and subsequently the risk of

microbiological contamination in the building, machinery, eggs and chicks or poults. Especially in a hatchery it is crucial that the detergents which are chosen are proven safe for equipment and different types of material (copper, aluminum, etc) but at the same time ensure an excellent cleaning result.

Cleaning

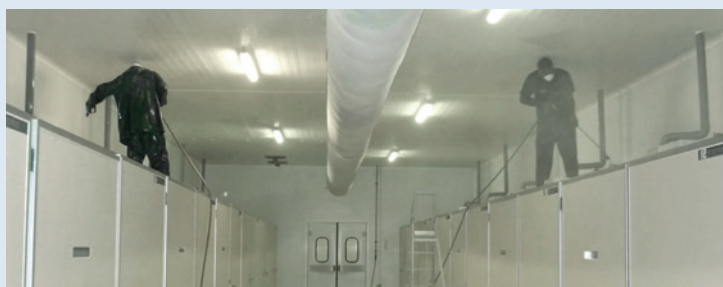
Hygiene of hatcher's and plenums

» KenoTMsan

The new standard in cleaning.

KenoTMsan combines **ultra-strong adhesion power** and **deep dirt-penetrating capacity** at very low dilutions! The cleaning action also gets amplified by **extended contact time** due to the sticky foam that remains attached upon all types of surface. Because the revolutionary sticky foam ensures a long contact time it therefore results in saving money on labour, water and energy. KenoTMsan delivers this high level cleaning result at 1-2 oz/gal, which makes it very cost effective per cleaned sq. ft. KenoTMsan is safe for materials and the environment. KenoTMsan can be applied with foaming equipment at mid or high pressure.

› Packing: 5.3 and 55 gal



» Biogel

Biogel has an extreme adhering power, due to its gel technology increasing the contact time needed for the chemical action, resulting in an excellent cleaning. Moreover, you will save on water, energy and labour (labour is 80% of your cleaning cost). An efficient cleaning will remove >80% of the micro-organisms. Biogel can be easily applied with all foam lances and spraying equipment.

› Packing: 1.33, 6.6 and 55 gal



Hygiene of setters, storage rooms, selection zone, etc

» Cid Foam

Cid Foam is a chlorinated alkaline foaming detergent. Do not apply on aluminum.

› Packing: 5.3, 55 and 165 gal



» UFC +

UFC + is a special, user friendly, cleaning product developed for the removal of sticky dirt in hatcheries and can be used on all surfaces, machinery and vehicles without causing problems of corrosivity.

› Packing: 5.3 and 55 gal



» Tornax-S

Concentrated acid cleaner with good foam generation for descaling. Contains phosphoric acid. Tornax-S will prevent scale from building up. Be careful on copper.

› Packing: 5.3 and 55 gal



Disinfection

» Virocid®

The world's most powerful disinfectant.

Virocid® is an **extremely concentrated disinfectant** with a synergistic composition of 3 active ingredients. It has proven records in preventing and fighting disease outbreaks for many years: IB, IBD, Avian Influenza, ALT and *Salmonella*. It is **amazingly effective** at very low dilutions (0,25 – 0,5% or 1/3 - 2/3 oz/gal) against ALL microorganisms: bacteria, viruses and fungi.

Virocid® is hospital graded according to the EPA registration in the USA.

Moreover, Virocid® has a long residual action. Tested and registered worldwide (EN, AFNOR, DEFRA, DVG, EPA, ...).

The bactericidal, virucidal and fungicidal effect of Virocid® is unique in the world and is safe for people, animals and their environment. Virocid® complies with MEL. This legislation ensures a safe and healthy working environment for all employees by assessing the risk of the use of chemical agents within that environment.

The European legislation states that the maximum exposure limit (MEL) for glutaraldehyde can not exceed 0,05 ppm. The values for Virocid® below show that Virocid® fully complies with this legislation.

- » Virocid® sprayed at 0.5% (1:200) → 0.019 ppm
- » Virocid® foamed @ 0.5% (1:200) → 0.016 ppm

More information available on www.virocid.com!

» Packing: 1.33, 5.3 and 55 gal



The perfect match
for a better hatch

Bacteria:	Dilution	Virus (on environmental surfaces):	Dilution
Salmonella enterica (formerly S. choleraesuis)*	1:400	Porcine circovirus, type II (PCV, PT-1 cell)*	1:200
Staphylococcus aureus*	1:400	Pseudorabies (American BioResearch Laboratories)*	1:400
Pseudomonas aeruginosa*	1:400	Porcine Respiratory and Reproductive Syndrome (Arko Laboratories)	1:400
Campylobacter jejuni*	1:400	Avian Reovirus (Spafas Strain)*	1:256
Corynebacterium pseudotuberculosis*	1:400	Marek's Disease (Spafas Strain)*	1:400
Avibacterium paragallinarum (formerly H paragallinarum)*	1:400	Newcastle Disease (Spafas Strain)*	1:400
Klebsiella pneumoniae*	1:400	Avian Influenza (Turkey/Wis/66 strain - H9N2)*	1:400
Listeria monocytogenes*	1:400	Human Influenza A (H1N1)*	1:400
Mycoplasma gallisepticum*	1:400	Swine Influenza A (H1N1)*	1:400
Mycoplasma synoviae*	1:400	Avian Infectious Laryngotracheitis (Charles River Laboratories)	1:400
Ornithobacterium rhinotracheale*	1:400	Infectious Bursal Disease (Spafas Strain 2512)*	1:400
Salmonella enterica (formerly S. enteritidis)*	1:400	Fungus (on environmental surfaces):	
Mycoplasma hyopneumoniae**	1:400	Fusarium dimerum*	1:400
Streptococcus suis*	1:400	Penicillium expansum*	1:400
Salmonella enterica (formerly S. typhisuis)*	1:400	Trichophyton mentagrophytes	1:400
Escherichia coli*	1:400	Algae and slime forming bacteria in recirculating water cooling systems and evaporative condensers	25-50 ppm
Bordetella avium*	1:256		
Salmonella enterica (formely S. pullorum)*	1:256		



Tray wash

» DM Cid

DM Cid is a complex, alkaline blend based on chlorine and potassium hydroxide with cleaning and bleaching properties, for elimination of grease and proteins. DM CID applied in an automatic crate washer, ensures clean and shining crates.

› Packing: 6.6, 55 and 165 gal



» Pho Cid

Pho Cid is an acid cleaning product for the descaling and the removal of persistent protein and mineral deposits.

› Packing: 5.3 and 55 gal



Truck wash

» UFC + or Keno san™

UFC + and Keno san™ are very effective cleaners for equipment, sensitive materials and vehicles. Thanks to the combination of powerful cleaning agents and special corrosion inhibitors, They are ideal for all corrosion sensitive surfaces (e.g. aluminum, copper, zinc, ...).



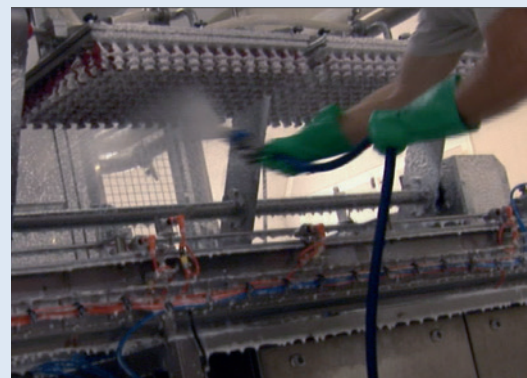
Floors and corridors

Floors and corridors need alkaline detergents.



Transfer zone

Automation equipment require alkaline cleaners that stick long enough(contact time).



Pad Cooling maintenance

To remove algae and slime forming bacteria:

» Initial Treatment

Add Virocid (0.02% or 1 oz / 40 gal) within the system as to acquire the desired results. Virocid is EPA registered for 'control of slime forming bacteria to cooling water systems'

» Maintenance Treatment

Add Virocid (0.0055% or 1 oz / 150 gal) within the system, continuously, with the help of medicator or treat this way, in general, on weekly basis.

To remove and prevent scale buildup

Choice of 2 methods

- 1 Add PHO CID to the system @ 1 – 2 oz / gal of water; Let this solution circulate through the system until EC Pads are cleaned; Drain the system and flush with clean water.
- 2 Foam with TORNAX-S @ 5 – 6 oz / gal on the surface of EC Pads; Allow it to remain for 10 minutes; Rinse off with clean water; Drain the system and flush with clean water.



Instructions for use:

As an acid cleaner in tray and buggy washers: use 3/4-11/2 ounces per gallon.

As a descaler: user 6-8 ounces per gallon

BEST VETERINARY SOLUTIONS, INC.

Ellsworth, IA.....888-378-4045
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