abirein®
for your health

DISINFECTING DILUTIONS USING THE DISINFECTANT ABIREIN®LIQUID+ CONCENTRATE FOR DIFFERENT APPLICATIONS.

**RELIABLE, EFFECTIVE, INEXPENSIVE, SAFE,
ENVIRONMENTALLY FRIENDLY AND FULLY BIOLOGICAL DEGRADABLE.**

ABIREIN®LIQUID+ CONCENTRATE CAN BE DILUTED WITH WATER TO SUIT DISINFECTING APPLICATIONS AS REQUIRED.

**Abirein Liquid contains no alcohol, phosphates, tensides,
formaldehyde, fragrances or colorants**

USING THE DISINFECTING ABIREIN®LIQUID+ CONCENTRATE IN THE FOODINDUSTRY, IN AN ABATTOIR OR OTHER SLAUGHTERING FACILITIES.

ABIREIN LIQUID / WATER dilutions can be used effectively to slow down the decaying process of slaughtered animal carcasses (cow, sheep, pig, fowl or fish).

The oxidants contained in **ABIREIN LIQUID** are highly effective and destroy all known bacteria, fungi and other micro- organisms such as salmonella streptococci, E. Coli etc.

ABIREIN LIQUID can be applied before meat is packed or frozen.
ABIREIN LIQUID can be sprayed on evenly to the surface of the meat or also to the inside of carcasses. After a period of 30 seconds to 2 minutes the meat can be packed or frozen. A mixture of 1:20 to 1:50 is recommended.

To transport fish, crustaceans, and shellfish it is recommended that ice cubes are to be made from a mixture of **ABIREIN LIQUID** 1:50 or 1:100. The **ABIREIN LIQUID** contained in the ice cubes will protect the foodstuff even when suddenly melted so preventing a soon spoilage.
ABIREIN LIQUID leaves no after taste on the food.
ABIREIN LIQUID can be used disinfecting store-rooms, storage containers, refrigeration units (also on Trucks) and all objects, equipment, working surfaces and containers in food preparation and slaughter areas which could be contaminated by dangerous micro-organisms.
The items and facilities can be disinfected by a mixture of **ABIREIN LIQUID** 1:10 to 1:50.
ABIREIN LIQUID can be also effectively used to prevent a build up of odours in drains and drain pipes.

DISINFEKTION IN THE FOOD, FRUIT JUICE AND BEVERAGE INDUSTRY

An **ABIREIN LIQUID** / water mixture of 1:10 to 1:50 will here be effective to keep down bacteria and other harmful micro organisms.
A disinfecting dilution has to be made up to suit the strength of bacterial contamination.
The disinfecting dilution can be used disinfecting floors, walls, containers, pipe lines, working surfaces, equipment etc.

ABIREIN®LIQUID+ CONCENTRATE / WASSER mixtures can be used in many disinfection applications and be applied in following dilutions:
The dilute able ABIREIN LIQUID+ CONCENTRATE has a PH- level of 2.5 to 2.8.

Dilution for light contaminations: 1 litre ABIREIN LIQUID to 50 l water (1:50)
Dilution for medium contaminations: 1 litre ABIREIN LIQUID to 20 l water (1:20)
Dilution for heavy contaminations: 1 litre ABIREIN LIQUID to 10 l water (1:10)

ABIREIN LIQUID SURFACE DISINFECTION WORKS WITHIN 60 SECONDS
ABIREIN LIQUID is:

- **environmentally friendly**
- **non irritating to skin**
- **will not damage the materials with which it has contact**
- **removes bad odours**
- **taste less**

The oxidants contained in ABIREIN LIQUID are very effectively killing:

- **Bacteria like E, Coli, Salmonella, Streptococcus etc.**
- **Also multi resistant bacteria like MSRA and EHEC**
- **Virus**
- **Fungi**
- **Algae**

ABIREIN®LIQUID+ CONCENTRATE IN SANITARY AREAS

ABIREIN LIQUD is suitable for surface disinfections on sanitary fittings and equipment in the kitchen, bathroom, toilets, saunas, sun- studios and in sport and fitness areas.
An **ABIRIN LIQUID** / WATER mixture of 1:10 to 1:50 can be used.

Application

All surfaces, floors, walls, objects ,fittings, equipments etc (sinks, showers, shower-heads, toilet seats and bowls, table surfaces, work surfaces, floors and walls) should be wiped down using the prescribed concentration of **ABIREIN LIQUID**. The objects and surfaces are disinfected after a waiting period of just 60 seconds.
ABIREIN LIQUID can also be poured into drains to disinfect and remove bad odours.

ABIREIN®LIQUID DISINFECTION AND HYGIENE IN AREAS OF ANIMAL HUSBANDRY

Disinfection of drinking water for animals

To prevent a spread of disease through contaminated drinking water, **ABIREIN LIQUID** should be added daily to the drinking water in a concentration of 1:500 to 1:800 (1 Litre **ABIREIN LIQUID** in 500 or 800 Litres water).

Contagious diseases foot and mouth disease, bird- influenza etc

Shallow plastic container filled with **ABIREIN LIQUID** in a concentration of 1:10 = 1 L **ABIREIN LIQUID** in 10 Litres of water should be placed at all entrances and exits. Whereby humans and animals can disinfect boots, hoofs and feet. In extreme cases the containers should be filled with **ABIREIN LIQUID** on a daily basis.

Salmonella and eggs

In the production of eggs the health of the laying hens and germ free eggs are of utmost importance. **ABIREIN LIQUID** can be used to effectively combat salmonella.
Salmonella can only penetrate the inner egg during the first 3 days after lying. After 3 days the egg is hardened and no longer permeable for salmonella.
Therefore disinfection should take place within a 3-day period. To destroy any surface salmonella the eggs should be immersed as soon as possible after laying (for up to one minute) in a mixture of **ABIREIN LIQUID** 1:20 to 1:50. As the shell is still porous **ABIREIN LIQUID** can penetrate into the inner egg.
ABIREIN LIQUID leaves no after taste.

DISINFEKTING MILKING FACILITIES

Disinfecting milking or dairy equipment, pipe lines, hoses and containers or the udder of a cow can be done with an **ABIREIN LIQUID** / water mixture of 1:10 to 1:50.
The mixture has to be made up to suit the bacterial contamination.

Treatment of Animal wounds

ABIREIN LIQUID can be used in a concentration of 1:10 or undiluted to wash wounds on animals to hasten the healing process.
ABIREIN LIQUID is also not irritating the skin and is generally unproblematic to be used on animals, as they keep still while being treated.

A disinfecting **ABIREIN LIQUID soaked** bandage (diluted ABIREIN / WATER 1:10) can be applied to the wound of animals to support the healing process.

ABIREIN®LIQUID IN VEGETABLE, FRUIT AND FLOWER FARMING

EFFECTIVENESS AND USE OF ABIREIN LIQUID IN FLOWER AND VEGETABLE GROWING GREEN HOUSES.

ABIREIN LIQUID is environment friendly and can be effectively used in irrigation systems in green houses to destroy micro organisms.
To disinfect central irrigation systems **ABIREIN LIQUID** should be used in a concentration of 1:400 or 1:500. **ABIREIN LIQUID** removes and prevents a build up of algae in the irrigation system.

A mixture of **ABIREIN LIQUID** in the concentration of 1:300 or 1:500 protects the plants against mildew and similar fungal diseases.
ABIREIN LIQUID should be used at least once a week (or in shorter cycles) in the irrigation system as the oxidants decrease.

The shelf life of freshly harvested fruit and vegetables can be prolonged before packaging by a treatment with a mixture of **ABIREIN LIQUID** in a concentration of 1:10 or 1:50 either by submersion or spraying.

PLANTS GROWING IN GREEN HOUSES

Disinfection of irrigation systems:
Treatment of potting soil:
Treatment of seeds before planting:
Treatment of bulbs or tubers:

USE OF ABIREIN LIQUID WITH CUT FLOWERS OR HERBS

ABIREIN LIQUID is well suited to prolong the shelf life of cut flowers or edible herbs.
The cut flowers have to be placed in plastic containers with an **ABIREIN LIQUID** / Water mixture of 1:200. **ABIREIN LIQUID** keeps the cut surface of the flower stems free from bacteria and fungi this preventing decay and prolonging the shelf life. The flowers can still absorb water during long transportation in summer temperatures without notable losses**.**
Cut flowers stems should be shortened by 1cm and the stem cut lengthways by 2 cm.

DISINFECTION OF DRINKING WATER

According to the German drinking water regulations and the WHO recommendation, **NO E.COLI or COLIFORM BACTERIA** should remain in drinking water at all.

- The upper limit for free chlorine in drinking water is 0.6 mg per litre.
- The pH-level of drinking water is mostly 7 (neutral) but 6.5 to 9 is still within the limits.

To ensure an efficient protection against a new infection of the drinking water after the purification, a residual chlorine content of 0.2 to 0.6 mg per litre is necessary, depending on the temperature of the water.

OUR SUGGESTION TO PRODUCE A GOOD QUALITY DRINKING WATER

- To use an **ABIREIN®LIQUID+ concentrate** with a pH-level of 2.5 to 2.8
- The concentrate, in this form is very effective in destroying bacteria.
- For the disinfection of drinking water a dilution proportion of 1 part **ABIREIN®LIQUID+** concentrate to 1500 parts of water will be effective.
- Strongly contaminated water found in hot climates can be treated with a dilution of 1 to 800.