

# DAIRYSIL KB-00

**DAIRYSIL KB-00<sup>®</sup>** is a new generation of ecologically non-toxic antiseptics and disinfectants that are highly effective against a broad spectrum of pathogenic microorganisms. These compounds differ from conventional chemical disinfectants and sterilants since they do not contain poisonous substances such as aldehydes, phenols, chlorine, etc. **DAIRYSIL KB-00<sup>®</sup>** is not only a disinfectant but also an effective sterilant; as the name implies it can completely destroy pathogenic microorganisms.

## **Recommendation for the use of DAIRYSIL KB-00<sup>®</sup>:**

Before the start of the next milk bulking in the tank, run **DAIRYSIL KB-00<sup>®</sup> sanitizer cycle**. (as explained below)



The following method may be adhered for the circular sanitizing of the milking machines, its pipeline & milk tank:

- **Rinse with 35 – 40<sup>0</sup> C hot water until all milk residues are removed and the water appears colorless.**
- **Clean with 50 – 65<sup>0</sup> C hot water mixed with DAIRYSIL KB-00 @ 1 liter in 100 liters of water.**
- **Circular cleaning time = for 15 – 25 minutes.**
- **Rinse with fresh drinking water.**

***Always use the recommended amount of DAIRYSIL KB-00<sup>®</sup>.***

For the **bulk tank**, be sure that it is rinsed with warm water immediately after each pickup before any milk residue dries (use cold water if warm is not available) and follow the above explained procedure. Just before collecting fresh milk, sanitize the bulk tank with **DAIRYSIL KB-00<sup>®</sup>**.

The above procedures will help keep the bacteria to a minimum acceptable level.

### **More details of DAIRYSIL KB-00®:**

The composition of **DAIRYSIL KB-00®**, the formula of which is approved by the USFDA, is given below:

Hydrogen peroxide....	49.71%
Silver.....	0.029%
Inerts .....	50.261%

Due to its proprietary nature, the formulation has been awarded a United States Patent # 6,242,009, (visit <http://patft.uspto.gov>), and it is currently being patented in more than twenty countries, and is available on the PCT (Patent Commission Treaty) Web Site, and has the number WO 0062618, (visit <http://ep.espacenet.com>). In addition, this has been approved by the USFDA (United States Food & Drug Administration), and is now available on the FDA effective notification Internet site at <http://www.cfsan.fda.gov/~dms/opa-fcn.html> and is assigned the Numbers 295 and 296. It is also noteworthy to mention here that these approvals are novel since they constitute precedence in that it is the first time that the USFDA approves silver and hydrogen peroxide as antimicrobial agents to be used as direct food additives.

### **Advantages of DAIRYSIL KB-00®**

There are numerous advantages related to **DAIRYSIL KB-00®** formulation, including but not restricted to the following:

- Offer rapid sterilization and disinfection
- Clear, tasteless and odorless compounds
- It is harmless to humans, plants, vegetation and aquatic life
- It has a broad spectrum of germicidal activities
- Numerous applications
- It is environmentally safe and friendly
- Non-carcinogenic or mutagenic
- Inexpensive
- Can be applied using conventional spraying and fogging techniques
- It does not decompose to produce harmful substances or by-products
- In its conventional use, it is neither harmful nor irritating

### **Active Ingredients:**

#### Hydrogen peroxide & Silver:

Hydrogen peroxide decomposes readily upon contact with food and it is degraded to H<sub>2</sub>O and O<sub>2</sub>, which should not present any toxicological concerns. The concentration of silver in attaining the intended technical effect should not present any toxicological concerns since its concentration is comparable with that of USFDA (United States Food & Drug

Administration), USDA (United States Department of Agriculture) USEPA (United States Environmental Protection Agency) and the WHO (World Health Organization) standards for silver regulations. It is especially notable to mention here that, from an ecological perspective, the decomposition end products of **DAIRYSIL KB-00**<sup>®</sup> is mainly water and trace elements that are harmless to living organisms.

**Inactive Ingredients:**

All inactive ingredients present in **DAIRYSIL KB-00**<sup>®</sup> are basic constituent of the human food diet. All are considered as indirect food additives, and it is generally recognized as safe (GRAS) by the USFDA.

All active & inactive chemicals in **DAIRYSIL KB-00**<sup>®</sup> are of Food grade.

**Handling Advantages:**

**DAIRYSIL KB-00**<sup>®</sup> is miscible in water in all proportions

**DAIRYSIL KB-00**<sup>®</sup> does not foam

**DAIRYSIL KB-00**<sup>®</sup> leaves no coating on disinfected surfaces

**DAIRYSIL KB-00**<sup>®</sup> does not bleach or discolor disinfected surfaces

Consult your **ALPHA OMEGA BIOLOGICALS** Specialists for technical assistance and further information if needed.

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