

Silcolapse® 721

Silicone Antifoam Emulsion

November 2017

Description

Silcolapse® 721 is a non-ionic aqueous 10% active silicone antifoam and/or defoamer. It offers excellent antifoam and defoaming properties in a wide variety of aqueous applications including those with incidental food contact as well as food processing applications. The product effectively controls foam at concentrations as low as 10 ppm solids, even at elevated temperatures. The product gives good results at wide-ranging pH and provides a cost effective solution where foam is a problem.

Applications

Silcolapse® 721 is a broad spectrum antifoaming and defoaming agent which can be used to control or destroy foam in many industrial, food processing and food contact applications. Typical applications in which it can be used include:

- **Beverages, Juices, Sauces and Soup:** Many food and beverage applications generate foam, **Silcolapse® 721** will reduce or eliminate foam problems during the processing of many food and beverage applications
- **Fruit and Vegetable Washing and Processing:** Many fruit and vegetable processes generate foam, **Silcolapse® 721** will reduce or eliminate foam in raw fruit and vegetable washing, potato processing and sugar beet and sugar cane processing
- **Dairy Products:** Dairy and cheese production and processing can generate foam **Silcolapse® 721** will reduce or eliminate foam problems during the processing in many dairy production processes
- **Meat, Poultry and Seafood:** Meat, poultry and seafood production and processing can generate foam **Silcolapse® 721** will reduce or eliminate foam problems in meat and poultry rendering, egg washing and seafood processing and production
- **Fats and oils:** Production and processing materials into edible fats and oils can generate foam **Silcolapse® 721** will reduce or eliminate foam problems during processing and production
- **Water / Effluent Treatment:** Aerobic and anaerobic water treatment; activated sludge processes, food plant waste water treatment and cooling towers

Advantages

- Easy to use – as supplied or pre-diluted in water or in the medium to be defoamed
- Cost efficient, effective in doses as low as 10 ppm
- Highly effective in most aqueous media, and at many pH levels
- Chemically inert in foaming systems – will not alter the properties of the foaming medium
- Heat resistant – works at application temperatures up to 120°C (248°F)
- Low viscosity allows it to be used with automatic metering systems
- Kosher certified

Characteristics

• Appearance	Opaque white liquid
• Actives, %	10
• Specific Gravity	~1.0
• Viscosity (cPs)	500 - 2000
• Emulsifier Type	Non-ionic
• pH	4 to 6

Please note: The typical properties listed in this bulletin are not intended for use in preparing specifications for any particular application of Silcolapse® silicone materials. Please contact our Technical Service Department for assistance in writing specifications.

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Instructions for use

Trial tests should be carried out to determine the quantity of antifoam needed to produce best results and assure no adverse interference with product or process performance. Testing should be started at 10 ppm and increased or decreased based on the results. For convenience, **Silcolapse® 721** is designed to be used as is so no dilution is necessary. If needed, a 1% active solution can be made by adding 9 parts water (or foaming solution) to 1 part **Silcolapse® 721**. Predilution at a level less than 1% is not recommended.

FDA Regulatory Information

FDA Status

The Ingredients in **Silcolapse® 721** are permitted for FDA regulated applications as follows:

- 21 CFR 175.105 Adhesives
- 21 CFR 173.340 Defoaming agents
- 21 CFR 176.200 Defoaming agents used in coatings
- 21 CFR 176.210 Defoaming agents used in the manufacture of paper and paperboard

EPA Regulatory Information

EPA Pesticide Chemical Regulations

The Ingredients in **Silcolapse® 721** are exempt from the requirement of a tolerance

Under EPA regulations:

40 CFR 180.910

Packaging

Silcolapse® 721 is available in 1000 kg tote containers, 200 kg drums and 20 kg pails.

Storage and shelf life

Silcolapse® 721 when stored in the original, unopened container between (5-40°C), can be stored for 9 months from the date of manufacture. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications

Safety

Please read the product label for **Silcolapse® 721** and consult the Safety Data Sheet (SDS) before handling to review hazards as well as safe handling and storage information. If you need to obtain the SDS for **Silcolapse® 721**, please contact your Elkem Silicones representative.

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