

Eco Awareness

# Liquid Tool-Contribution to GREENER PLANET

**Blaser Swisslube has designed a unique Blasocut Bio-Concept that primarily uses a strain of bacteria to eliminate other bacteria, making emulsion for the sector stable and safe. Read on to know more.**

It is becoming a global requirement for all manufacturing organisations to contribute towards a greener planet. These initiatives are either due to global regulations or self-consciousness towards the environment. Blaser Swisslube has designed Blasocut, a concept which works in perfect harmony with nature. It enables colonisation by stable primary bacteria that eliminate all other bacteria by taking over the available nutrition; thus, limiting their own growth as well. The result is long-term emulsion stability and one of the safest formulations to use across the world.

Mixing the emulsion concentrate with water propagates a natural biological equilibrium. By incorporating the primary bacteria, the Blasocut system uses a well-proven law of nature to eliminate the use of tankside addition of allergenic bactericides.

### How does the Blasocut Bio-Concept work?

These naturally omnipresent primary bacteria build up a stable biotope where undesirable bacteria have no chance of propagation. Just like the bacterial flora in our intestinal tract or throat prevent pathogens from spreading, the primary bacteria in Blasocut emulsions also repress undesirable bacteria, pathogenic agents and fungi. Any dangerous bacteria infiltrating the metalworking fluid later on cannot possibly reproduce or spread because they literally die of hunger.

### How does this concept benefit Blasocut users?

Blasocut emulsions based on the primary bacteria principle enables optimal process reliability, extremely long service life and make it as one of



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Source: Blaser Swisslube India Pvt Ltd

Blasocut – 100% bactericide free

### 18 What is the Blasocut Bio-Concept?

Water-miscible Blasocut emulsions stay biologically stable inherently, without needing any bactericides—a concept that the company introduced 40 years ago.

What makes the Blasocut Bio-Concept so special is its sophisticated chemical composition. The harmless environmental primary bacteria commonly found in drinking water are deliberately fostered to keep Blasocut emulsions stable.

the safest formulations in the world.

### How is long-term sump life possible without adding bactericides?

The special feature of the Blasocut formulation is that despite special growth of the leading germ, the ingredients remain unchanged. With this formulation, the bacteria naturally present in water prevent the ingredients from being attacked or decomposed. The pH value that is so important for the stability of an emulsion stays constant, and there is no change in odour.

### Does Blasocut concentrate already contain this primary bacteria in the drum, or how do they get into the system otherwise?

No, Blasocut concentrate contains no primary bacteria. They automatically enter when it is mixed with water to form an emulsion. Furthermore, the basic biological makeup including the primary bacteria already exists in every newly filled machine,

depending in all cases however on the quality and intensity of cleaning prior to refilling.

The Bio-Concept also works with rainwater, demineralised or softened water. The Bio-Concept is robust, which is why the primary bacteria always grow in the desired manner. Even if used with sterile water, the primary bacteria will be detected sooner or later. It is important to note that the primary bacteria is not delivered with the metalworking fluid concentrate.

Blasocut emulsions need no tankside addition of bactericides. Users, therefore, have practically no problem with skin irritation. For many customers the excellent skin compatibility of Blasocut emulsions is an important reason for choosing them. Moreover, there are no storage and dosing complications.

With the optimal choice of coolants, one can improve productivity, economic efficiency and machining quality. At the same time green manufacturing is also achieved with the help of coolants such as word.

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