

QUALITY PROTECTS.

**Triazine Alternative for Metalworking Fluids
from LANXESS Material Protection Products**
US Market

QUALITY WORKS.

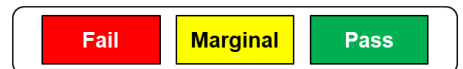
LANXESS
Energizing Chemistry

BIOBAN™ P-1487 combined with Preventol® BIT 20N or ROCIMA™ BT 2S can be an alternative to triazines. This synergistic blend optimizes metalworking fluid concentrate microbial protection.

Benefits of this combination include:

- A broader spectrum of bacterial and fungal protection
- Good solubility in both oil and water metalworking fluid concentrates
- Efficacious microbial control at lower use levels
- Does not release formaldehyde under metalworking fluid use conditions

Efficacy of combination ratios in fully synthetic metalworking fluid*



Against Bacteria				
Preventol® BIT 20N or ROCIMA™ BT 2S (ppm product)	BIOBAN™ P-1487 (ppm product)			
	0	400	550	850
0	Fail	Marginal	Pass	Pass
500	Fail	Pass	Pass	Pass
1000	Marginal	Pass	Pass	Pass
1500	Pass	Pass	Pass	Pass

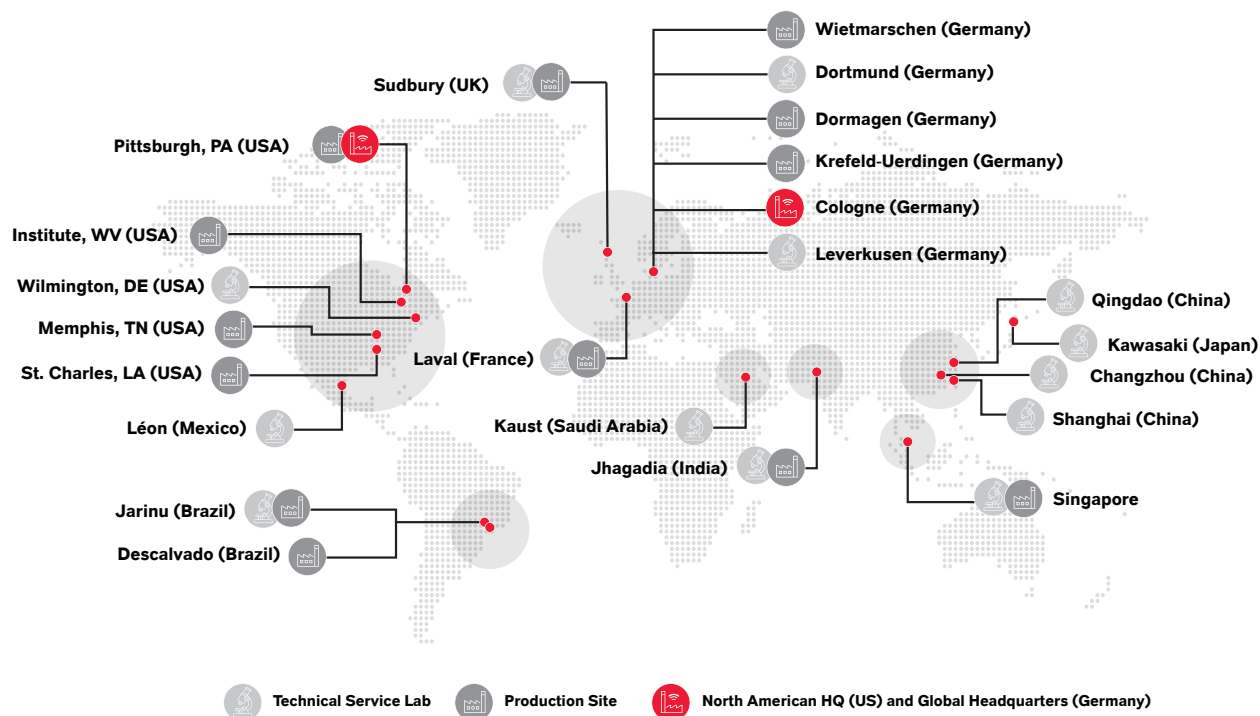
Against Bacteria and Fungi				
Preventol® BIT 20N or ROCIMA™ BT 2S (ppm product)	BIOBAN™ P-1487 (ppm product)			
	0	400	550	850
0	Fail	Fail	Marginal	Pass
500	Fail	Marginal	Pass	Pass
1000	Fail	Pass	Pass	Pass
1500	Pass	Pass	Pass	Pass

BIOBAN™ P-1487 is an alkaline solution containing 86% of the two active ingredients 4-(2-nitrobutyl)morpholine and 4,4'-(2-ethyl-2-nitrotrimethylene)dimorpholine. **Preventol® BIT 20N and ROCIMA™ BT 2S** are glycolic solutions of 19% BIT.

*As with any product, use of products mentioned in this publication in a given application must be tested (including field testing, etc.) in advance to determine suitability. Check EPA label for approved uses and dosages rates

LANXESS MPP offers a wide range of bactericides and fungicides, including CMIT/MIT, IPBC and several others, for tank side and concentrate uses. Consult your LANXESS MPP Account Manager for a complete product offering.

Business Unit Set-Up



Use biocides safely. Always read the label and product information before use.

Health and Safety Information: Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. Consult your LANXESS Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS.

Regulatory Compliance Information: Some of the end uses of the products described in this publication must comply with applicable regulations, such as the FDA, NSF, USDA, CPSC and BfR. If you have any questions on the regulatory status of these products, contact your LANXESS Corporation representative or Regulatory Affairs Manager at LANXESS.

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Energying Chemistry

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