

QUALITY PROTECTS.



Microbiological protection – for **sustainable paints** with a **long shelf life**.

X Preventol® **X** Preventol® next

QUALITY WORKS.

LANXESS
Energizing Chemistry

IN-CAN PRESERVATION IN EUROPE

LIMITED CHOICE OF ACTIVE INGREDIENTS

Several active ingredients for in-can preservation are used in the market. After the restrictions on formaldehyde and the influence on FA releasers in Europe, a combination of BIT and MIT (**B**enzisothiazolinones and **M**ethylisothiazolinones) had established as a market standard.

In 2020, the new limit for H317 labeling for MIT became mandatory. Products preserved with MIT are expected to be restricted to professional users after active substance approval under Biocidal Products Regulation (BPR), which is expected for beginning of 2022.

Octylisothiazolinone (OIT) and Zinc Pyrithione (ZPT) were included in 15th ATP. Whereas OIT has received a lower H317 labeling limit, ZPT was classified as reprotoxic substance, resulting in additional consequences for paint manufacturers. The changes from the 15th ATP will become mandatory on March 1, 2022.

These new regulations force biocide suppliers to develop new formulations with sufficient efficacy that comply with the regulatory constraints. Thereby the choice of active ingredients for preservation is limited even further.

DBDCB AS ALTERNATIVE

DBDCB-based products are a good alternative for the MIT free and ZPT free preservation of in-can formulations in order to prevent the H317 label on the end product.

The active ingredient DBDCB has a favorable profile:

- Long-term efficacy
- Broad spectrum efficacy including *Pseudomonas* and *Fusarium* species
- Good chemical compatibility with most formulation components
- Completely soluble in water-based products within dosage recommendation

NO H 317 LABEL OUR ALTERNATIVE PORTFOLIO

LANXESS has extended its portfolio by several novel alternatives, including formulations with the unique active ingredient DBDCB. Our alternative portfolio does not require a hazard symbol within the recommended dosages.

Preventol® BIT IT

- BIT + CMIT/MIT
- Best cost-performance ratio
- Fast acting

Preventol® DBC

- DBDCB + BIT + CMIT/MIT
- Fast acting biocide with long-term efficacy

H317 free preservation

Preventol® DP 18

- DBDCB + Bronopol
- Completely free from Isothiazolinones
- Long-term efficacy

Preventol® P 91 MV

- Bronopol + CMIT/MIT
- Rapid mode of action



DRY-FILM PORTFOLIO

REGULATIONS BECOMING TIGHTER

With Zinc Pyrithione fulfilling the exclusion criteria of the BPR in future, OIT having reduced H317 labeling limits and Carbendazim already being a candidate for substitution, the choice of active ingredients for dry-film preservation will be limited dramatically in future.

Choose from our portfolio - fungicides for indoor or outdoor use, algicides, stabilized active ingredient, formulations with slow release technology, and formulations for water-based or solvent-borne coatings. A detailed overview can be found in the product list.

We are working permanently on new formulations and are open to conduct performance tests in cooperation with our customers.

X Sporgard®

Sporgard® WB

- (Aqueous) dispersion of Thiabendazole, Azoxystrobin and Fludioxonil.
- Highly effective combination of fungicides for indoor applications

X Preventol® next

Our Preventol® next series is based on an innovative slow release technology and offers enhanced products with excellent efficacy and ecotox profile that have been designed for ecologically advantageous and premium end-products.

The active ingredients have been embedded in a matrix that releases the compound slowly. All products from the series are aqueous dispersions, so that handling makes no difference compared to normal dispersions.

Preventol® next MP 900

- Aqueous dispersion slow release IPBC
- For water-based coatings
- Excellent effectiveness towards mould and staining fungi
- Reduced leaching

Preventol® next A 6-D

- Aqueous dispersion with slow release Diuron
- Reduced leaching
- Longer shelf life

X Preventol®

Preventol® MP 700

- Stabilized IPBC (liquid concentrate)
- Excellent efficacy against blue stain and mould
- Enhanced stability in combination with siccatives and pigments
- No or negligible impact on drying time of coatings
- Suitable for solvent-borne coatings

Preventol® MP 400-D

- Aqueous IPBC dispersion
- For water-based coatings
- Excellent effectiveness towards mould and staining fungi
- VOC-free

Preventol® A 6-D

- Aqueous dispersion of Diuron.
- For the manufacture of algicidal coatings and plasters for exterior applications.
- Broad spectrum algicide which is highly effective.

LANXESS BIOCIDES FOR PAINTS AND COATINGS

Table 1: In-Can Preservatives

| Product | Active ingredient | Appearance | VOC | AOX | Comment |
|-------------------------|------------------------|------------|-----|-----|-----------------------|
| Preventol® BIT 20-D | BIT | Dispersion | No | No | – |
| Preventol® BIT 20-N | BIT | Solution | Yes | No | – |
| Preventol® BIT 10 | BIT | Solution | No | No | – |
| Preventol® BIT IT | BIT + CMIT/MIT | Dispersion | No | Yes | Product to avoid H317 |
| Preventol® BM 5 / BM 10 | BIT + MIT | Solution | No | No | – |
| Preventol® BMO | BIT + MIT + OIT | Solution | No | No | – |
| Preventol® BO | BIT + OIT | Dispersion | No | No | – |
| Preventol® D 8 | CMIT/MIT + TMAD | Solution | Yes | Yes | – |
| Preventol® D 12 | CMIT/MIT + EDDM | Solution | Yes | Yes | – |
| Preventol® D 7 LT | CMIT/MIT | Solution | No | Yes | – |
| Preventol® DP 18 | Bronopol + DBDCB | Dispersion | No | Yes | Product to avoid H317 |
| Preventol® DBC | DBDCB + BIT + CMIT/MIT | Dispersion | No | Yes | Product to avoid H317 |
| Preventol® P 72 W | Bronopol | Solution | No | Yes | – |
| Preventol® P91 MV | CMIT/MIT + Bronopol | Solution | No | Yes | Product to avoid H317 |

Table 2: Dry-Film Preservatives

| Product | Active ingredient | Appearance | VOC | AOX | Comment |
|------------------------|---------------------|------------|-----|-----|--|
| Preventol® A 17-D | Thiabendazole + OIT | Dispersion | No | No | - For indoor use |
| Preventol® A 26-D | ZPT + OIT | Dispersion | No | No | - For indoor and outdoor use |
| Preventol® MP 400-D | IPBC | Dispersion | No | Yes | - For indoor and outdoor use - Architectural and wood coatings |
| Preventol® A 6 / A 6-M | Diuron | Powder | No | Yes | - For outdoor use |
| Preventol® A 6-D | Diuron | Dispersion | No | Yes | - For outdoor use |
| Preventol® A 14-D | Diuron + BCM + OIT | Dispersion | No | Yes | - For outdoor use |
| Preventol® A 27-D | Diuron + ZPT + OIT | Dispersion | No | Yes | - For outdoor use |
| Preventol® MP 260 | IPBC | Solution | Yes | Yes | - For indoor and outdoor use - Architectural and wood coatings |
| Preventol® MP 700 | IPBC | Solution | Yes | Yes | - Stabilized IPBC solution - For outdoor use - Wood coatings |
| Preventol® next A 6-D | Diuron | Dispersion | No | Yes | - Slow release technology |
| Preventol® next A 29-D | Diuron + ZPT + OIT | Dispersion | No | Yes | - Slow release technology |
| Preventol® next MP 900 | IPBC | Dispersion | No | Yes | - Architectural and wood coatings - Slow release technology |
| Sporgard® WB | Azotech, FDL + TBZ | Dispersion | No | No | - For indoor use |



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

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