



INTERCIDE™ OBF 20 DINCH

Product Description

The Intercide OBF range of products is based on the active ingredient 2-n-octyl-isothiazolin-3-one (OIT). Intercide OBF 20 DINCH uses OIT dispersed in a non phthalate, specifically developed to provide a high level of immediate and long term protection of compatible end products such as PVC and silicone sealants against attack by micro-organisms.

Typical Properties

Appearance:	Pale yellow liquid
Density at 25°C g/ml:	0.96 approx.
OIT %:	20.00% approx.
Stability:	Liquid even at low temperatures.
Stability in use:	Use at lowest possible temperature & time.
	Avoid mercapto compounds.



The above do not constitute a specification

Applications

The Intercide OBF family is designed to provide fungicidal protection. OIT active has good resistance to UV but only moderate water leaching resistance which renders the product most suitable for use in a variety of indoor applications based on calendaring and extrusion techniques. OIT active also has some moderate bacteriostatic properties but higher additions may be required. The Intercide OBF family of products should be incorporated into the PVC formulation during the compounding or extrusion stage of the process. We are able to offer use of our microbiological facilities to determine the optimum level required for protection. Avoid pre-mixing with mixed metal stabilisers, add separately and disperse well to avoid any reducing agent impacting the biocide stability. Intercide OBF 20 DINCH contains 20% OIT and as such the addition levels recommended are in the range of 0.5% rising to 1.0% for the more demanding applications.

Packing and Storage

The Intercide OBF family should be stored in dry conditions, preferably at room temperature. Once opened the container should be firmly closed after use. Full information on the safe handling is available on the Health and Safety Data Sheet. Special conditions: During periods of extreme cold temperature the product may winterise, leading to crystallisation or solidification. The product can be thawed prior to use using a suitable drum heater or water bath by heating gently overnight (max 50°C). This will not adversely affect the active ingredient but some mixing may be required. Packing option: Plastic drums of 200kg net weight or 950kg IBC. Shelf Life: minimum 24 months from manufacture (when stored as recommended).

Technical Performance

OIT has moderate water solubility (500ppm) so the product may not be suitable for high moisture environments where longer term protection is required. OIT shows larger zones in zone of inhibition tests, such as ISO 846B (or ASTM E1428) compared to alternative actives lower in water solubility.

Intercide OBF 20 DINCH added at 0.50% gives an addition of 0.1% or 1000ppm of active biocide.

ISO 16869 Test - QUV exposure

% Incorporated product (% active in the foil)	Fungal growth* after x hrs exposure in QUV weathering tester			
	0	72	25	500
No Biocide	2	2	2	2
0.50% Intercede OBF 20 DINCH (0.1% Active)	0	1	1	1

ISO 16869 Test - Water Leaching

% Incorporated product (% active in the foil)	Fungal growth* after x days of leaching (water at 19°C)				
	0	21	35	56	70
No Biocide	2	2	2	2	2
0.50% Intercede OBF 20 DINCH (0.1% Active)	0	1	2	2	2

0	=	No growth (Material is resistant to fungal attack)
1	=	Initial growth, comparable to the rest of the agar surface (Material is not susceptible to attack)
2	=	Obvious growth and sporulation (Material is susceptible to fungal attack)

Examples of spoilage organisms

Moulds	Moulds	Yeasts
<i>Trichoderma viridae</i> <i>Fusarium sp.</i> <i>Chaetomium globosum</i> <i>Rhizopus nigricans</i> <i>Aspergillus niger</i>	<i>Aternaria alternata</i> <i>Aureobasidium pullulans</i> <i>Penicillium glaucum</i>	<i>Saccharomyces cerevisiae</i> <i>Candida albicans</i> <i>Rhodotorula rubra</i>

The fungal Minimum Inhibitory concentration (MIC) range between 0.5 and 10ppm active. MIC is not an indication of dose required. Also effective against some bacteria at higher levels but additional bactericide recommended where required.

Approvals and restrictions

Use of Intercede OBF 20 DINCH has the following restrictions:

Any liquid product into which this product is incorporated containing greater than 500ppm OIT (0.25% addition) must carry the GHS warning pictogram (right) and H317 phrase (May cause an allergic skin reaction). CLP 2nd ATP (EU H208) applies to this product above 50 ppm for any mixtures from 1st June 2015. (Contains n-octylisothiazolinone. May produce an allergic reaction.) No pictogram is required for EU H208.

H412 phrasing applies for OIT > above 250ppm (0.125% addition) when using this product. (Harmful to aquatic life with long-lasting effects) but no pictogram.

This labelling does not currently apply to dry articles which are not mixtures or preparations because the active is not considered readily bioavailable.



This product has active ingredients notified under the Biocidal Products Regulation for product type:

- 9 Fibre, leather, rubber and polymerised materials preservatives

BPR Treated article labelling applies from September 1st 2013 according to Article 58.

For further information contact your nearest Valtris Specialty sales representative or authorised distributor.

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

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