



PROMEX™ OIT14

Broad spectrum antimicrobial

PROMEX™ OIT14 is a broad spectrum biocide formulation consisting of a 14% glycolic solution of 2-octyl-2H-isothiazolin-3-one. *Frost stable to -5°C.*

Key features

- particularly effective as a fungicide for a wide range of industrial applications
- glycol based
- broad spectrum of activity against microorganisms responsible for spoilage
- free from formaldehyde, formaldehyde releasers, phenolics, heavy metals
- easy to incorporate into a wide range of industrial products
- cost effective, low use levels
- good compatibility with other raw materials
- effective over wide pH range
- frost stable
- may be used to provide both in can and dry film protection

Characteristic properties

- pale yellow to amber liquid
- compatible with most commonly occurring raw materials
- odourless at use level
- stable over wide pH range 4 – 12
- light stable

PROMEX™ OIT14 is manufactured to the highest purity standards.

PROMEX™ OIT14 prevents or minimises microbial deterioration of products and resulting consequences such as:

- gassing
- phase separation
- staining due to microbial grow
- changes in viscosity
- malodours

Microbial efficacy

Bacteria	MIC (ppm)	Fungi and yeasts	MIC (ppm)
<i>Pseudomonas aeruginosa</i>	3000	<i>Aspergillus niger</i>	60
<i>Pseudomonas putida</i>	330	<i>Penicillium mineoluteum</i>	15
<i>Escherichia coli</i>	825	<i>Fusarium solani</i>	10
<i>Staphylococcus aureus</i>	70	<i>Geotrichum candidum</i>	60
<i>Proteus vulgaris</i>	650	<i>Candida albicans</i>	15

Applications

PROMEX™ OIT14 is highly suitable for the preservation of a wide variety of industrial products including surface coatings, adhesives, pigments, metal working fluids and other industrial products. Able to provide both in-can and dry film protection and may be used in conjunction with other industrial biocides such as **PROMEX™ BIT** to give cost effective broad spectrum antimicrobial activity against bacteria and fungi.

It shows highest efficacy and stability in a wide pH range of pH 4 – 12

Use levels of **PROMEX™ OIT14** normally range from 0.05 – 0.15% (in-can applications) and 0.3-0.8% (dry film applications), based on total finished weight of product.

Experience shows that compatibility with most products and raw materials is excellent, although compatibility testing and determination of most effective use concentrations is recommended.

Application areas

- paints
- stains and varnishes
- adhesives
- sealants and caulks
- metal working fluids
- pigments

Aquatic toxicity (OIT)

LC ₅₀ 96h, Fish	0.116 mg / l
LC ₅₀ 48h, Daphnia	0.32 mg / l

Toxicological effects (OIT)

LD ₅₀ , oral, rat	275 mg / kg (active ingredient)
LD ₅₀ , dermal, rat	>2000mg / kg (active ingredient)

DISCLAIMER

All information contained in this brochure is given in good faith, and without liability. It is intended for guidance only.

Users are advised to conduct their own independent examination of the product to ascertain its suitability for incorporation into processes or products.

Users should ensure that the use of the product complies with all pertinent current legislation.