

# ACTICIDE<sup>®</sup> OX

## Product Information



**ACTICIDE<sup>®</sup> OX** is an oxazolidine based formaldehyde donor specifically developed for the primary and secondary preservation of aqueous metalworking fluids, cooling and lubricating emulsions, grinding fluids, construction chemicals and similar products.

### Chemical and Physical Characteristics

<b>Composition:</b>	bis-(5,5 <sup>1</sup> -dimethyl-1,3-oxazolidine-3-yl)-methane
<b>Appearance:</b>	Clear, almost colourless liquid
<b>Odour:</b>	Characteristic
<b>Density (20°C):</b>	1.040 – 1.072 g/ml
<b>pH value:</b>	9.0 – 11.0
<b>Amine value:</b>	580 – 600 mg/g
<b>Solubility:</b>	Fully soluble in water, most lower alcohols and glycols
<b>Stability in application*:</b>	Stable over the pH range 3 - 10 and up to 80°C

Note: *These characteristics do not constitute a sales specification*

### Biocidal Properties

**ACTICIDE<sup>®</sup> OX** has a broad activity spectrum against bacteria, moulds and yeasts, including the following organisms:

Test Organisms		
Bacteria		Fungi
<i>Achromobacter sp.</i>	<i>Flavobacterium sp.</i>	<i>Aspergillus sp.</i>
<i>Aeromonas sp.</i>	<i>Klebsiella sp.</i>	<i>Penicillium sp.</i>
<i>Alcaligenes sp.</i>	<i>Proteus sp.</i>	<i>Rhodotorula sp.</i>
<i>Bacillus sp.</i>	<i>Pseudomonas sp.</i>	<i>Saccharomyces cerevisiae</i>
<i>Escherichia coli</i>	<i>Streptomyces sp.</i>	

### Applications / Use Levels

**ACTICIDE<sup>®</sup> OX** is suitable for the wet state primary and secondary preservation of aqueous metalworking fluids, cooling and lubricating emulsions, grinding fluids, construction chemicals and similar products.

Normal end use concentrations are in the range 0.05 - 0.25%, depending on the product to be protected and the environmental conditions to which it will be exposed. If added to concentrated products which are subsequently diluted before use, addition levels must be adjusted accordingly. The precise level required by a specific formulation can be determined by the local **Thor Microbiological Technical Centre**.

## Addition / Compatibility

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**ACTICIDE® OX** can be added at any time during manufacture. However, it is advised to add it as early as possible to give protection to susceptible products throughout the production process. Care should be taken to ensure that temperature and pH at the point of addition are suitable for stability of the product. Avoid acids.

Prior to use **ACTICIDE® OX** must not be diluted or mixed with any other raw material to avoid negative influences on the active. Please contact our local **Thor Microbiological Technical Centre** for more information.

**ACTICIDE® OX** is not compatible with formaldehyde sensitive products but may be used in most other formulations in which its application is recommended. Users are advised to carry out their own tests or seek further advice from **Thor** prior to initial application.

## Packaging / Storage / Transport / Regulatory Approvals

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<b>Packaging:</b>	plastic drums: 5 kg, 25 kg, 200 kg; IBC: 1,000 kg
<b>Shelf Life:</b>	12 months from production date when stored at approximately 20°C
<b>Availability:</b>	Ex stock in the above packaging
<b>Storage:</b>	Ensure good exhaust ventilation at the workplace. Handle product in a closed system. Decant carefully and avoid splashes. Prevent formation of aerosols. Store only in the original container. Do not store with acids. Keep containers tightly sealed. Prevent release to the environment by adequate secondary containment and use of appropriate spill control procedures.
<b>Transportation:</b>	<b>ACTICIDE® OX</b> is classified as hazardous for transport
<b>Regulatory Approvals:</b>	Detailed information available in the regulatory status document.

## Safety / Labelling / Toxicology

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For detailed information on the toxicology and handling of **ACTICIDE® OX** and advice on the labelling of products in which it may be used, please refer to the separate Material Safety Data Sheet or seek specific advice from **Thor**.

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\* The data given are time and system dependant.

The information contained in this leaflet is intended to be of assistance to users but is without guarantee. Variations can occur in application and users are advised to conduct their own tests. Suggestions for use neither give nor imply any freedom from patent infringement

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