

ACTICIDE® SR 1032

Product Information



ACTICIDE® SR 1032 is a biocide specifically developed for the wet-state protection of aqueous metalworking fluids and other alkaline products from microbial attack, principally by fungi.

Chemical and Physical Characteristics

Composition:	Aqueous solution of pyridinethiol-1-oxide, sodium salt
Appearance:	Yellow liquid
Odour:	Characteristic
Refractive Index (20°C)	1.3640 - 1.3690
Density (20°C):	1.040 - 1.060 g/ml
Solubility:	Fully soluble in water, most lower alcohols and glycols.
Stability in application*:	Stable over the pH range 4.5 – 10.0 and up to 100°C

Note: These characteristics do not constitute a sales specification.

Biocidal Properties

ACTICIDE® SR 1032 is principally a broad-spectrum fungicide, effective against both moulds and yeasts but with some antibacterial properties.

Test Organisms		
Bacteria	Moulds	Yeasts
<i>Escherichia coli</i>	<i>Aspergillus niger</i>	<i>Candida albicans</i>
<i>Pseudomonas aeruginosa</i>	<i>Penicillium notatum</i>	
<i>Salmonella typhimurium</i>	<i>Trichophyton mentagrophytes</i>	
<i>Staphylococcus aureus</i>		
<i>Streptococcus faecalis</i>		

Applications / Use Levels

ACTICIDE® SR 1032 is suitable for the wet-state preservation of a wide range of aqueous alkaline products. It is particularly suitable for the wet-state primary and secondary preservation of aqueous metalworking fluids, cooling and lubricating emulsions, grinding fluids and similar formulations. It may also be used for the protection of pigment dispersions, paints, varnishes, polymer dispersion, adhesives, ceramic glazes, detergents, surfactants and cooling water systems.

Since ACTICIDE® SR 1032's biocidal efficacy is primarily antifungal the additional use of one of Thor's range of wet-state biocides may be necessary in products prone to bacterial attack.

Normal use concentrations are in the range 0.08 - 0.30%, depending on the product to be protected and the environmental conditions to which it will be exposed. If added to concentrated products, subsequently diluted before use, addition rates must be adjusted accordingly. The precise level required by a specific formulation can be determined by the local Thor Microbiological Technical Centre.

Addition / Compatibility

ACTICIDE® SR 1032 can be added at any time during manufacturing. However, it is advised to add it as early as possible to give protection throughout the production process. In the case of metalworking fluids **ACTICIDE® SR 1032** can be incorporated at the formulation stage or added to the product after dilution at the workplace. **ACTICIDE® SR 1032** exhibits no compatibility problems in most practical applications. However, due to the large range of possible applications, it is recommended that the stability of the active ingredients, system compatibility and any influences on the product properties during production, storage, transport and in the application are tested prior to use. The use of oxidising, reducing agents and nucleophiles which may adversely affect active ingredient stability should be avoided. Care should be taken to ensure that temperature, pH and redox potential at the point of addition are suitable for stability of the product. In the presence of metal ions, such as ferric or copper ions, coloured metal complexes with pyrithione can be formed, especially under alkaline conditions. It is therefore recommended that potential discolouration risks are tested individually to account for any system, matrix and external influencing factors.

It is generally recommended to routinely test for changes in chemical and physical properties such as discolouration (colour stability), viscosity and odour, for each individual matrix system, as well as the effects of external factors such as pH, moisture, temperature and UV light.

Prior to use, **ACTICIDE® SR 1032** must not be diluted or mixed with other raw materials which could adversely affect the performance of the active agent. Please contact your local **Thor Microbiological Technical Centre** for further information.

Packaging / Storage / Regulatory Approvals

Packaging:	Plastic drums: 30 kg / 200 kg, IBC: 1,000 kg
Availability:	Ex stock in the above packaging
Shelf Life:	12 months from production date
Storage:	Use polyolefin containers. Prevent release to the environment by adequate secondary containment design and use of appropriate spill control procedures.
Regulatory Approvals:	Detailed information available in the regulatory status document.

Safety / Labelling / Toxicology

For detailed information on the toxicology and handling of **ACTICIDE® SR 1032** 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**.

* 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.

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General changes of the document in 2014 are included in the new revision.