



# DOWICIDE & DOWICIL Preservatives in Metalworking Fluids

## The Industry

The composition of metalworking fluids and the environment to which they are exposed make this application one of the largest potentials for preservative sales. Both DOWICIDE\* and DOWICIL\* 75 preservatives have commanded a strong presence in this application since their initial introduction. Performing two different functions, DOWICIDE and DOWICIL 75 typically do not compete for business.

Since metalworking fluids are usually formulated as concentrates that are diluted before use, preservatives are added in two different ways. First, a preservative is needed in the concentrate for preservative prior to use. This preservative usually provides only minimal protection once the concentrate is diluted. Consequently, a second preservative is added to the diluted fluid at tankside to extend life and performance.

Because DOWICIDE is manufactured to give either oil (DOWICIDE 1) or water (DOWICIDE A) solubility and is extremely stable, these products are used to preserve the concentrate. Due to its cost-effectiveness, DOWICIL 75 preservative is used as the tankside additive.

## Features and Benefits

<b>DOWICIDE Antimicrobial</b>	
<ul style="list-style-type: none"> <li>• Storage stability</li> <li>• Oil solubility (DOWICIDE 1)</li> </ul>	<ul style="list-style-type: none"> <li>• Allows for long-term shelf life in concentrates</li> <li>• Easily formulated with fluids containing as much as 75% oil</li> </ul>
<b>DOWICIL 75 Preservative</b>	
<ul style="list-style-type: none"> <li>• Broad-spectrum activity</li> </ul>	<ul style="list-style-type: none"> <li>• Controls organisms that destroy fluids and cause slime build-up</li> </ul>

## Competitive Products

Grotan™ from U.S. Professional Labs, Tris Nitro™ from Olin, Kathon™ from Rohm & Haas, Vancide™ TH from Vanderbilt Chemical, and Bioban™ from Angus Labs all compete with DOWICIL 75 and DOWICIDE A in this market.

## Literature Available

See "DOWICIL 75 Preservative," Form No. 253-00963, for more information on DOWICIL in metalworking fluids. Also see "DOWICIL 75 Preservative in 2-1/2 lb. Water-Soluble Bags," Form No. 243-00900, for details on this convenient method for tankside addition to metalworking fluids.

For more information on DOWICIDE, see "DOWICIDE 1 Antimicrobial," Form No. 253-00908, and "DOWICIDE A Antimicrobial," Form No. 253-00907-86.

## Comments

When contacting metalworking fluid formulators, you should be aware that most provide service to their end-user by recommending or selling the additional preservative required for tankside addition. Therefore, both DOWICIDE and DOWICIL products should be introduced to these formulators – DOWICIDE for their concentrates and DOWICIL 75 for tankside addition. Keep in mind that the convenient, 2-1/2 lb. water-soluble bag packaging available for DOWICIL 75 can be a competitive advantage in this application since it eliminates weighing at tankside.

## Questions To Ask

- Q. What preservatives do you currently use for concentrated fluids and for tankside addition?
- Q. Do you have stability problems with the preservative you use in your concentrated fluids?
- Q. Do you have performance problems with your fluids due to contamination?
- Q. What types of fluids do you formulate?

## Product Recommendations

Application	Product	Use Levels
Soluble oil or semi-synthetic concentrate	DOWICIDE 1	1.0-4.0% in concentrate
Synthetic concentrate	DOWICIDE A	1.0-3.0% in concentrate
Tankside addition	DOWICIL 75	0.05-0.2% in diluted fluid

Call 1-800-447-4369 for more information, complete literature, and product samples. You can reach a Dow representative by calling the following phone numbers.

From the United States and Canada	call 1-800-447-4369
From Mexico	call 95-880-447-4369
In Europe FAX + 31/20.691.6418	call + 31/20.691.6268

**NOTICE:** No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

