



## **PRODUCT INFORMATION**

# **UCARSOL™ GT 8715 ANTIFOAM**

## **FOR GAS TREATING**

### **INTRODUCTION**

The Dow Chemical Company has been at the forefront of gas treating technology for the past 60 years, attaining a leading position in amine chemicals, UCARSOL™ solvents, and specialized technologies, such as SELEXOL™ solvents and the UCARSEP™ amine reclamation system. The development of new products, technologies and services are part of ongoing programs that provide for current and future gas treating industry needs.

One of the challenges Dow has addressed is the foaming occasionally experienced in gas treating systems. This problem is usually the result of contaminants entering or forming in the amine system, or improper operating conditions. The best cure to this problem is finding the cause and eliminating it. However, antifoams can be an effective interim, or even a long-term, cure if elimination of the cause is not possible.

Although antifoams have a wide range of applications in various industries, many formulations are not suitable for gas treating uses and can actually aggravate the problem. Based on extensive experience with commercial applications, Dow has developed a series of high-performance antifoams specifically designed for gas treating uses. UCARSOL™ GT 8715 antifoam, one of the specialized antifoam products, provides foam control in amine solvent and dehydration systems, and improves overall performance.

### **PRODUCT DESCRIPTION**

UCARSOL GT 8715 antifoam is particularly useful in controlling foam conditions caused by liquid hydrocarbon contamination in the process feed gas, or when cutting oil and/or packing oil is left in new equipment. Both refinery and natural gas processing facilities often encounter liquid hydrocarbon contamination and should consider using UCARSOL GT 8715 antifoam, particularly when putting new equipment on line.

## **SPECIAL FEATURES AND ADVANTAGES**

A versatile foam control agent, UCARSOL™ GT 8715 antifoam provides these important advantages:

- Excellent mass transfer while controlling foam
- Excellent antifoam durability when liquid hydrocarbon contamination is present
- Reduced addition levels for control of severe foaming situations
- Improved product quality for excellent foam control
- Quick foam knockdown
- Ease of use
- Improved overall performance of the system in terms of separation and solvent loss
- Does not cause scaling in heat exchangers nor physical build-up problems within the system
- Requires only low concentrations for effective foam control

## **ANTIFOAM SERVICES**

On-site plant assistance and quick responses are service benefits that come with the use of UCARSOL™ GT-Series antifoams. An engineering consultant will provide technical assistance as to the use level and application procedure.

Our research and development laboratory facility has up-to-date equipment to provide analytical and foam control troubleshooting capabilities for difficult-to-control systems. For answers to technical or support questions, contact Dow.

## **HOW TO USE**

UCARSOL GT 8715 antifoam performance is dictated by the activity of the foamant and system losses. It can be added to the aqueous system before foaming occurs. In the event of a foaming situation, this antifoam can be used at moderate levels as a defoamer to quickly regain system control. If a full-flow carbon filter is present, continuous addition is recommended. For slipstream, or if there's no carbon filtration present, use either batch or continuous addition.

Generally, concentrations of 2 to 20 ppm UCARSOL GT 8715 antifoam are adequate enough to control foam in gas treating units. Typical concentrations are shown in Table 1. However, we recommend that you contact Dow for specific recommendations or addition amounts. With any foaming challenge, an attempt should be made to identify and eliminate its source. Dow can provide you with assistance in identifying the cause.

**TABLE 1 • CONCENTRATION OF UCARSOL™ GT 8715 ANTIFOAM**

<b>Concentration</b>	<b>Parts per million of UCARSOL™ GT 8715 Antifoam (as received)</b>
4 Pints in 5,000 Gallons	100
4 Pints in 10,000 Gallons	50
13 Ounces in 10,000 Gallons	10
2 Pints in 50,000 Gallons	5

**PRODUCT STEWARDSHIP**

When considering the use of any Dow products in a particular application, you should review the latest Material Safety Data Sheets from Dow and ensure that they are intended for safe use. For Material Safety Data Sheets and other product safety information, contact Dow. Before handling any other products mentioned in the text, you should obtain available product safety information and take necessary steps to ensure safety of use.

No chemical should be used as or in a food, drug, medical device or cosmetic, or in a product or process in which it may contact a food, drug, medical device or cosmetic until the user has determined the suitability and legality of the use. Since government regulations and use conditions are subject to change, it is the user's responsibility to determine that this information is appropriate and suitable under current, applicable laws and regulations.

Dow requests that the customer read, understand, and comply with the information contained in this publication and the current Material Safety Data Sheet(s). The customer should furnish the information in this publication to its employees, contractors and customers, or any other users of the product(s), and request that they do the same.

**TO LEARN MORE...**

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*\*Toll free service not available in all countries.*



Oil & Gas

**For more information, visit [www.DowOilandGas.com](http://www.DowOilandGas.com).**

Note: This guide is designed as a general product overview. Please contact your local Dow Oil & Gas representative for up-to-date, detailed technical information including registrations and use limitations and to discuss individual applications or requirements.

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