

## Silbreak\* 638

### Description

Silbreak 638 silicone demulsifier is based on a modified polydimethylsiloxane that contains no added halogens. It is an excellent candidate to consider to efficiently break water-in-oil emulsions, control foam in oil-based systems, and is expected to be approved for use under European requirements for use and discharge of offshore chemicals.

Silbreak 638 silicone demulsifier may possess exceptional crude oil demulsification performance either on its own or in combination with non-silicone organic demulsifiers to which it may deliver a remarkable boost in the speed of separation. It may also control foam in gas/oil separators where typical polydimethylsiloxane oils may not be effective or do not satisfy European regulations for the use and discharge of offshore chemicals.

### Key Features and Typical Benefits

- acts in gas/oil separators both as demulsifier as well as foam control agent
- can boost performance of demulsifier formulations
- fast separation of water from crude oil, particularly during the initial phase of separation
- low BSW
- potential overall cost reduction due to lower dosages
- essentially free of phenolic derivatives
- can be easily blended with organic demulsifiers

### Typical Physical Properties

|                                  |                            |
|----------------------------------|----------------------------|
| Polarity (HLB)                   | 7                          |
| Silicone RSN                     | 12.7                       |
| Viscosity cSt, 20°C              | 160                        |
| Density g/cm <sup>3</sup> , 20°C | 0.91                       |
| Silicone Molecular Weight        | 1600                       |
| Solubility in Water (1%)         | Dispersible                |
| Preferred Solvents               | Aromatics, 2-ethyl-hexanol |
| Flash Point (°C, Closed Cup)     | >80                        |

Typical data are average data and actual values may vary.

Typical data shall not be used as product specifications.

The information shown above on the polarity and molecular weight may be useful in case blending with other materials is desired. The polarity is based on the best estimate of HLB as calculated from the solubility parameters (Barton, A.F.M. Handbook of Solubility Parameters and Other Cohesion Parameters, Boca Raton: CRC Press, 1983) based on the composition of Silbreak 638 silicone demulsifier.

The RSN value was determined experimentally.

#### **Patent Status**

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

#### **Product Safety, Handling and Storage**

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

#### **Limitations**

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

#### **Contact Information**

For product prices, availability, or order placement, contact our customer service at [Momentive.com/CustomerService/](http://Momentive.com/CustomerService/)

For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

#### **DISCLAIMER:**

**THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS**

**SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.**

Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier’s standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

\*Silbreak is a trademark of Momentive Performance Materials Inc.1033

**Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.**