

## Product Specification

**BREAK-THRU® EM O 5****Product description**

BREAK-THRU® EM O 5 is a co-emulsifier based on lipophilic oleic acid ester of a selected polyglycerol.

**Physical properties**

Density at 20 °C	ca. 0.9 g/ml
Appearance	yellow liquid
Active content	100 %
HLB value	5.5

**Application**

The primary application of BREAK-THRU® EM O 5 is to function as a lipophilic co-emulsifier for oils in water. Specifically, this material enhances emulsion stability and application performance of agrochemical formulations. Additional details are available upon request.

BREAK-THRU® EM O 5 is not water soluble and requires inclusion of a hydrophilic emulsifier for proper performance; it should be added to the oil phase prior to dilution into water.

For vegetable oil and natural derived pesticidal oils BREAK-THRU® EM O 5 can be applied as a co-emulsifier in combination BREAK-THRU® EM V 20. In combination with BREAK-THRU® EM O 7 a complete OMRI-listed package is available.

**Storage Stability**

BREAK-THRU® EM O 5 is stable in closed containers for 12 months.

**Packaging**

760 kg pallet (4 x 190 kg)

**Listing Status**

BREAK-THRU® EM O 5 is listed in the following chemical inventories:

EINECS, TSCA, DSL, AICS, ECL, ENCS, IECSC (China), PICCS.

In addition, BREAK-THRU® EM O 5 is listed in the OMRI inventory for use in organic production.

Per 40 CFR 180.910, BREAK-THRU® EM O 5 is exempt from the requirement of a tolerance when used in accordance with good agricultural practice as an inert ingredient in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest.

**Hazardous goods classification**

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

06/2016

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

**Evonik Nutrition & Care GmbH**  
 Goldschmidtstraße 100  
 45127 Essen, Germany  
 Phone Europe +49 201 173 2665  
 Phone Asia +86 21 61191 125  
 Phone Americas +1 804 727 0700  
[interface-performance@evonik.com](mailto:interface-performance@evonik.com)  
[www.evonik.com/interface-performance](http://www.evonik.com/interface-performance)