

## Product Specification

**TOMAMINE® AO-455 Surfactant – Amine Oxides****Description**

TOMAMINE® AO-455 Surfactant is a unique, low foaming, high detergency amine oxide. No flammable solvents are present. This product is supplied as a 50% active amine oxide in a water diluent.

NOTE: This material is a low foaming surfactant, but not necessarily a defoamer. If a formulation has a foaming agent present, the final formulation will likely have high foaming characteristics, regardless of the presence or absence of this low foaming amine oxide.

**Advantages**

- Low foaming
- High detergency on both hard surfaces and fabrics
- Good grease cutting properties
- High actives
- Non-flammable

**Applications**

- All-purpose cleaners
- Bathroom cleaners
- Carpet & upholstery cleaners
- Dish-wash products
- Glass cleaners
- Industrial cleaners
- Low Foam cleaners
- Low VOC cleaners
- Transportation cleaners

**Typical Properties<sup>1</sup>**

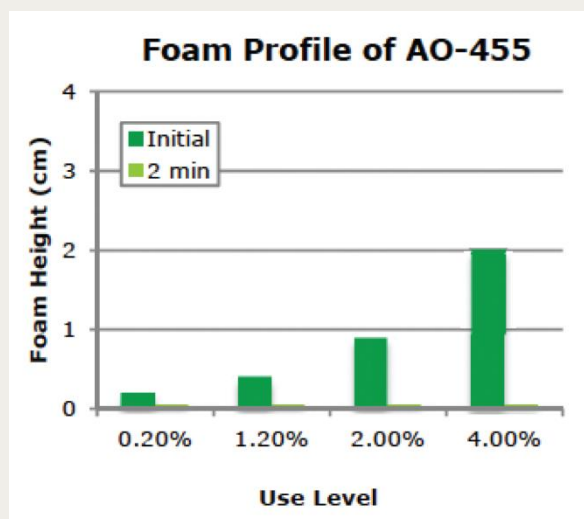
Active, %	50
Water %	50
Appearance @ 20 °C	colorless to yellow/amber
Viscosity (mPa.s @ 21.7 °C)	80
Melting point, °C	0
Boiling point, °C	99
Flash point, °C	> 100
Water solubility	miscible
Relative density	1.035
Surface tension @ 0.1 % (dynes/cm @ 22 °C)	34

## Performance advantages

**FIGURE 1: Ross-Miles Foam Height of TOMAMINE® AO-455**

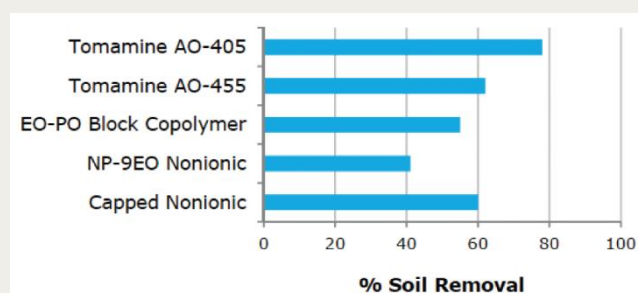
TOMAMINE® AO-455 Surfactant is an ultra-low foaming molecule, having negligible foam generation at any use level.

It is recommended for use in systems where extremely low foam is required.



**FIGURE 2: Gardner Hard Surface Scrub**

ASTM method D-4488 oily soil cured at 100 °C for 16 hours 3 minute soak, 10 strokes  
Simple Formulation: 0.5% Surfactant. 1.0 % NaOH



## 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.

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**For Technical Information, Support and Samples:**

Americas: [prodinfo@evonik.com](mailto:prodinfo@evonik.com)

Asia: [picasia@evonik.com](mailto:picasia@evonik.com)

EMEA: [apcse@evonik.com](mailto:apcse@evonik.com)

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**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)

