

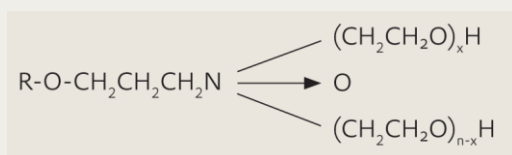
Product Specification

TOMAMINE® AO-14-2 Surfactant – Amine Oxides

Description

Evonik amine oxides are widely used in detergents to provide grease emulsification and soil suspension. TOMAMINE® AO-14-2 Surfactant is a 50 % active ether amine oxide derived from a branched chain C10 alcohol.

TOMAMINE® AO-14-2 Surfactant is represented by the formula:



TOMAMINE® AO-14-2 Surfactant can be used in combination with quaternaries and non-ionics to form a more environmentally safe alternative to solvent containing household, institutional and industrial cleaning systems. In particular, it can replace the use of glycol ethers in cleaning compounds.

Amine oxides tend to act non-ionically in neutral and alkaline pH.

Advantages

- Moderate foam
- Excellent grease emulsification
- Excellent soil suspension characteristics
- Compatibility in non-ionic, cationic, and anionic systems
- Viscosity building via pH change or salt addition

Applications

- High performance hard surface cleaners
- Non-solvent based hard surface cleaners
- Laundry detergents
- Pre-spot treatment products
- Fuel injector cleaners

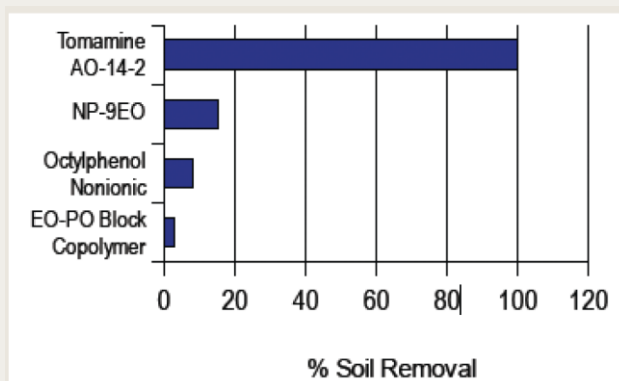
Typical Properties¹

Active, %	50
Hydrogen peroxide %, max.	0.5
Appearance @ 20 °C	colorless liquid
Average molecular weight	328
Viscosity (mPa.s @ 20 °C)	160
Surface tension @ 0.1 % (dynes/cm)	28
Pour point, °C	30
Flash point, °F	78
Specific gravity @ 77 °C	0.95
Water solubility	miscible
Gardner color, max.	3

Performance advantages

FIGURE 1: GARDNER HARD SURFACE SCRUB

ASTM method D-4488 oily soil cured at 100 °C for 16 hours 1% Active surfactant, 50 strokes



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

Asia: picasia@evonik.com

EMEA: 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
www.evonik.com/Interface-performance

