

Technical Bulletin**TERMIX[®] 5484 Surfactant**
(SURFONIC[®] AG-484 Surfactant)**PRODUCT DESCRIPTION**

TERMIX[®] 5484 surfactant is a solution containing a blend of anionic surfactants. It is a clear amber, low viscosity liquid, free of suspended material.

APPLICATIONS

- Agricultural spray adjuvant

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Clear light amber liquid	ST-30.1
Color, Gardner	3 - 6	ST-30.13
pH, 1% V/V	5.0 - 7.0	ST-31.36, C

*Methods of Test are available from Huntsman Corporation upon request.

TYPICAL PROPERTIES**Regulatory Information**

CAS Number	BLEND
DOT/TDG Classification	Not Regulated
HMIS Code	3-0-0
TSCA Inventory	Yes
WHMIS Classification	E, D1B
Canadian DSL	Yes

Physical Properties

Flash point, PMCC, °F	>250
Density, g/ml, 25°C (77°F)	1.1707
Weight, lbs/US gal, 25°C (77°F)	9.76
Viscosity, kinematic cSt at 40°C (104°F)	179

TOXICITY AND SAFETY

For information on the toxicity and safe handling of this product, please read the Material Safety Data Sheet prior to use of the product.

HANDLING AND STORAGE

TERMIX[®] 5484 surfactant may be satisfactorily stored in stainless steel tanks using steel pipes and pumps.

For longer term color stability, it is recommended that the product be stored under an inert atmosphere.

Low pressure steam coils in storage tanks and steam tracing of transfer lines should be provided in cases where low environmental temperatures may make pumping of the product difficult.

SHIPPING DATA

Product is available in tank cars or tank trucks. Small samples are available by contacting our sample department at 1-800-662-0924.

BIODEGRADABILITY AND ENVIRONMENTAL SAFETY

Although Huntsman Corporation has not conducted biodegradability studies on the TERMIX[®]-series products, constituents of these products are widely recognized as being readily biodegradable in the environment.

Numerous studies conducted by other workers¹⁻⁴ show that linear alcohol ethoxylates and nonylphenol ethoxylates rapidly undergo ultimate biodegradation to a significant degree (>90%) under a wide variety of conditions, including those present in secondary wastewater treatment plants and in river die-away tests corresponding to all seasonal conditions.

General References

1. Swisher, R. D., Surfactant Biodegradation, Marcel Dekker, 1987.
2. Talmage, S. S., Environmental and Human Safety of Major Surfactants: Alcohol Ethoxylates and Alkylphenol Ethoxylates, a report to the Soap and Detergent Association, Lewis Publishers, 1994.
3. Naylor, C. G., F. J. Castaldi and B. J. Hayes. "Biodegradation of nonionic surfactants containing propylene oxide." JAOCS **65**:1669-1676 (1988).
4. Kubeck, E. and C. G. Naylor. "Trace Analyses of Alkylphenol Ethoxylates." JAOCS **67**:400-405 (1990).

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