

# Masurf<sup>®</sup> 1296

## Low Foam Surfactant Hydrotrope

### Overview

MASURF 1296 is a highly efficient organic phosphate surfactant that delivers exceptional low foam hydrotrope performance. 1296 represents unique system that contributes surface activity, wetting, and detergency with excellent solubility and stability in alkaline and high electrolyte systems. MASURF 1296 is recommended for all alkaline applications where efficient low foam detergency is critical, including Household & Industrial detergents, Spray Wash formulations, Textile mercerizing bath additives, Hypochlorite containing detergents and Automatic Dishwash liquid detergents.

The optimized micellar performance of MASURF 1296 allows for high alkaline stability without the loss of detergency found in typical hydrotrope systems. 1296 is consistently low is color and odor, and dissolves quickly into water without a gel phase. Masurf 1296 is soluble in high electrolyte systems, with solubility in 30% sodium hydroxide, 35% potassium hydroxide, 20% tetrapotassium pyrophosphate or 40% sodium metasilicate.

MASURF 1296 is non-flammable, non-VOC, low foaming, alkaline stable, water soluble, and does not contain alkylphenol ethoxylates (APE's).

### Typical Properties

Classification .....	Organic phosphate sodium salt
Charge.....	Anionic
Physical form.....	Pale yellow liquid
Activity, % solids 1.5hr. @105°C.....	50±2
Specific gravity (25°C).....	1.14±0.04
Viscosity (25°C).....	<500cps (Brookfield)
pH.....	5.0±1.5
Boiling Point .....	212°F(100°C)
Flash point.....	>200°F (PMCC)
Shipping .....	Non-Red Label

### Handling Information

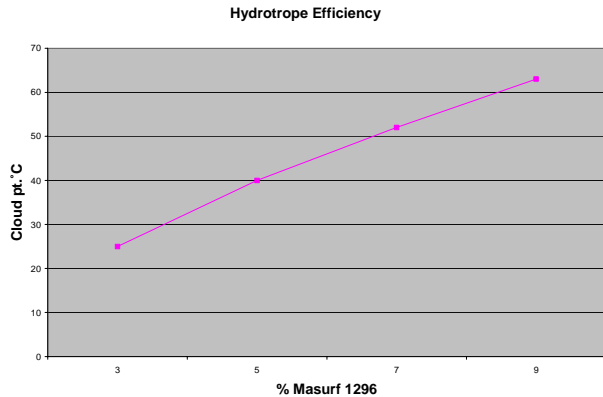
Refer to the Material Safety Data Sheet (MSDS) available from Mason Chemical Company for information on the safe use, handling and disposal of this product.

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# Masurf® 1296

MASURF 1296 is used to formulate stable high cloud point alkaline concentrates that readily dilute with no loss in detergency. 1296 is a unique product that combines high detergency with controlled low foaming characteristics. The following data illustrate the hydrotrope efficiency of Masurf 1296:

## Hydrotrope Efficiency



### Notes:

High Alkaline Concentrate:	
Water	to 100.0%
Sodium metasilicate-5H <sub>2</sub> O	8.0%
Sodium carbonate	3.0%
Nonylphenol 9.5ETO	4.0%
Masurf 1296, as supplied	3.0-9.0%

When formulated into Specialty Cleaning products, MASURF 1296 is an effective surfactant hydrotrope in highly alkaline low foam systems. The formulation below illustrates this effect:

## Low Foam Floor Scrubber Concentrate

Ingredients:	Wt. %
Water .....	82.5
Potassium Hydroxide, 45% .....	1.5
Tetrapotassium pyrophosphate, 60% ...	8.0
<b>Masurf 1296</b> .....	5.0
Tomadol 91-6 .....	3.0

### Notes:

**Mix in order listed, with complete dissolution.**

Cloud Point	>90°C
Recommended use-dilution	1-2 oz./gallon

## US TSCA/International Inventory Status

Masurf 1296 complies with the requirements of the following chemical inventories: US (TSCA, FIFRA-EPA Pesticide Inert Ingredient), Canada (DSL), European Communities (EINECS-NLP), Japan (MITI), Australia (AICS), Korea (ECL), Philippines (PICCS), ASIA-PAC, New Zealand (NZIoC).

**Harmonized Tariff Schedule Code (United States 2005):** 3402.11.5000