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# Ecwa NS40

## TECHNICAL DATA SHEET

### DESCRIPTION

**Ecwa NS40** is a Nonionic Surfactant blend of Fatty Alcohol Polyglycol Ether.

### FORMULATION/COMPOSITION

**ECWA-NS40** is a Nonionic Surfactant blend of both Straight chain and Branched chain fatty alcohol hydrophobes.

2. Composition:

- a. % Straight Chain Fatty Alcohol Ethoxylates | Proprietary
- b. % Branched Chain Fatty Alcohol Ethoxylates | Proprietary

### PROPERTIES/APPLICATIONS/USE

**Ecwa NS40** is essentially designed as an Environmentally Safe 0.6:1 Drop-In Replacement for NP4 in the General Cleaning and Degreasing Formulations, in order to cover the requirements for:  
Dispersancy; Emulsification; Wetting; General Detergency.

**Ecwa NS40** is Suitable/Compatible for use in the following Product Classes:

HI & I Cleaners/ Dishwashing Liquid and Degreasers / Hard Surface Cleaners / Agrochemicals/ Industrial Hand Cleaners & Hand-Soaps / Auto Care Products / Metal Cleaners /Dust Control/ Paper & Textile Processing / Paints & Coatings Etc.

**Ecwa NS40** is Insoluble in Water.

**Ecwa NS40** is Soluble in most Polar/ Non Polar Solvents and Oils.

**Ecwa NS40** is Chemically stable in the presence of Dilute Acids, Bases and Salts.

**Ecwa NS40** is Compatible with Soaps, Anionic & other Nonionic Surfactants & most Polar Organic Solvents.

**Ecwa NS40** needs to be included at between 0.1% for ready-to-use type Spray-On Products up to 5-10% in Concentrated Products being diluted 50-100 times before use.

### PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid	<b>Flash Point (Closed Cup, ASTM 93)</b>	281°C
<b>Appearance</b>	Colourless Clear/ Turbid	<b>Colour (APHA)</b>	MAX 5
<b>Odour</b>	Typical	<b>HLB</b>	8.90 ± 0.15
<b>Relative Density</b>	0.8 - 1.00 g/cm <sup>3</sup> @ 20°C	<b>Degree of ETHOXYLATION</b>	Proprietary Blend of Fatty Alcohol Ethoxylates in Water - 60% Concentrate
<b>Solubility</b>	In Oil & most Polar Solvents		
<b>pH (20°C- 5% Aq.Sol)</b>	8.00 - 9.00		
<b>Cloud Point (5% Aq.Sol)</b>	Insoluble		

This data does not constitute a specification - please see current "Certificate of Analysis".

### MANUFACTURER/SUPPLIER

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### SAFETY & HANDLING

Always consult the Material Safety Data Sheet before Use



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### FORMULATION HINTS

Where Thick Gel-like products are desired, we recommend the use of such techniques as the interplay between SLES, CDE, SULPHONIC ACID and SALT to achieve this, rather than to try thickening the products by using the Gel-Phase of a chosen surfactant, which in most cases are simply a waste of surfactant.

The inclusion of nonionic surfactants with an HLB similar to **Ecwa NS40** in a water based formulation assists with good wetting as well as good rinsing off of all surfaces after the formulated product has performed it's Primary Function. For this reason, even if a formula is based largely on the use of Anionic Surfactants (SLES/ SDDBSA/ SLABS), it is always advisable to include even as little as 0.5% of **Ecwa NS40** in the cleaning formula, where the final dilution of the product is up to 20-50 times. Where products are largely based on high-alkalinity cleaning functionality, they often lose rinseability, something that every user of a Cleaner/ Degreaser-type product deplors, because a product can only clean to the level of how well one can rinse it off after cleaning.

**Ecwa NS40** will not play a big role in the Rheology of a Formulation and will likewise only exhibit moderate abilities to Hydrotrope the inclusion of Salts. For high level of salts we recommend that a suitable hydrotrope be incorporated in order to stabilise your formula.

### STORAGE

This product should be stored in its original packaging (tightly sealed), indoors in ambient conditions, between 10°C - 38°C. Under these storage conditions, this product will be stable for up to 2 years. Thereafter test parameters should be confirmed before use.

### PACKAGING

Ecwa NS40 is available in	HLB Range
25 Kg - HDPE BLOWPACK	1. < 10 .....: W/O Emulsifier
180 Kg - HDPE BLOWPACK	2. > 10 .....: O/W Emulsifier
950 Kg - IBC (FLOBIN)	3. 10 - 15 .....: Good Wetting
	4. 12 - 15.....: Detergents

### SPECIAL NOTES/CAUTIONS

Although **Ecwa NS40** is recommended as a Drop-In Replacement for NP4 used in formulations, due to the Proprietary nature of Specific/Special Formulations, this product should always be Tested for Usage Level/Suitability for use within a formula before Batching-Up.

Due to **Ecwa NS40** being a blend, stir or agitate mildly after prolonged storage periods or inactivity and after having been exposed to extreme temperature fluctuations.

#### DISCLAIMER / NON-WARRANTY

This product has been subjected to limited tests and has been shown to perform well. The information contained herein is to our best knowledge true and accurate, but since the conditions of use are beyond our control, Ecwamix Chemical Systems cc. disclaims any liability in connection with the use of this product and/or information. Warranty extends only as far as to the replacement of material shipped if not compliant with the specification as set out in the attached "Certificate of Analysis" and within the expiry period of the said product. All recommendations or suggestions are made without guarantee. It is good practice to conduct one's own application tests on a small area prior to using the product.



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