Product Data Sheet
PLANTAREN® 2000 N UP

Labeling information
INCI name(s)
Decyl Glucoside

Registrations
<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CASR-No.</th>
<th>EINECS/ELINCS-No.</th>
<th>others</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>68515-73-1</td>
<td>no longer polymer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>110615-47-9</td>
<td>no longer polymer</td>
<td></td>
</tr>
</tbody>
</table>

Officially listed in / Quality conforms to
JCIC: Alkyl (8 - 16) Glucoside
(Ingredient Code 523007)


Product properties
Appearance
Hazy Pale Yellow Liquid

Example of use
PLANTAREN® 2000 N UP is a nonionic surfactant that can function as either a primary or secondary surfactant in a variety of personal care cleansers. Due to its mildness and excellent foaming properties, PLANTAREN® 2000 N UP is recommended for use in shampoos, shower gels, bubble baths, hand and face cleansers, and other applications where mildness and cleansing performance are required. It contains no solvents or hydrotropes and is easily formulated in personal care products. Being nonionic, PLANTAREN® 2000 N UP is compatible with cationic surfactants and polymers, and is recommended for conditioning shampoo formulations.

SPECIAL FEATURES:
PLANTAREN® 2000 N UP is a naturally derived alkyl polyglycoside surfactant prepared by reacting corn starch glucose with natural fatty alcohol. Due to its natural chemistry, PLANTAREN® 2000 N UP is very mild, low in toxicity, and readily biodegradable.

PLANTAREN® 2000 N UP is self-preserved and contains no added preservatives. The turbidity of the product is attributable to a combination of its magnesium oxide content (max. 500 ppm magnesium) and the high pH value at which it is supplied. This turbidity has no negative effects on the products properties and disappears when the pH is adjusted down to the neutral pH range.
All products in the text marked with an ® are trademarks of the Cognis group.
The information on product specifications provided herein is only binding to the extent confirmed by Cognis in a written Sales
Agreement. COGNIS EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE SUITABILITY OF THE PRODUCTS FOR ANY
SPECIFIC OR PARTICULAR PURPOSES INTENDED BY THE USER. Suggestions for the use and application of the products and
guide formulations are given for information purposes only and without commitment. Such suggestions do not release Cognis’
customers from testing the products as to their suitability for the customer’s intended processes and purposes. Cognis does not
assume any liability or risk involved in the use of its products as the conditions of use are beyond its control. The user of the
products is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual
property rights of third parties.

Cognis,
Care Chemicals

PLANTAREN® 2000 N UP

Rev. 15.1