## Stepan



## **Product Bulletin**

Product Name

Chemical Structure

**INCI Name** 

CAS Registry No.

**Applications** 

Typical Properties

Biodegradability

Toxicity

Storage & Handling

## STEPANOL® WA-100 NF/USP

CH<sub>3</sub> (CH<sub>2</sub>)<sub>10</sub> CH<sub>2</sub> OSO<sub>3</sub> Na

Sodium Lauryl Sulfate

151-21-3

STEPANOL WA-100 NF/USP is a sodium lauryl sulfate produced from the sulfation of fatty alcohol via Stepan's SO<sub>3</sub> process. The product of this process is then spray dried to produce a high active powder of exceptional quality.

STEPANOL WA-100 NF/USP can be used as a foaming agent and mouth dispersant in dentifrices. Because of its low levels of unsulfated material, STEPANOL WA-100 NF/USP will not cause toothpaste formulations to have the bitter taste associated with other sodium lauryl sulfates. STEPANOL WA-100 NF/USP can also be used in powdered formulations such as hand cleaners and powdered baths, and can be used in liquid hand soaps and shampoos.

| Appearance at 25°C                   | . White powder |
|--------------------------------------|----------------|
| Actives (MW 299), %                  |                |
| Unsulfated Material, %               |                |
| Sodium Chloride, %                   |                |
| Sodium Sulfate, %                    | 0.56           |
| pH, 1% aqueous                       | 9.75           |
| Color (APHA), 10% active             |                |
| Critical Micelle Concentration, mg/L | 389            |
| Density, approx. g/ml (lbs/U.S. gal) |                |
| RVOC, U.S. EPA, %                    |                |
| Preservative                         | Not required   |

Product is readily biodegradable. A detailed biodegradability statement is available upon request.

STEPANOL WA-100 NF/USP is slightly toxic orally (LD $_{50}$  is between 0.8 to 1.1 g/kg) and causes moderate to severe skin and eye irritation at 10% active.

Normal safety precautions (i.e., dust mask, goggles and gloves) should be worn when handling STEPANOL WA-100 NF/USP. This product should be used in a well-ventilated area. Avoid inhaling dust. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

It is recommended that STEPANOL WA-100 NF/USP be stored in sealed containers and kept in a cool, dry place to avoid agglomeration.

Standard Packaging: STEPANOL WA-100 NF/USP is available in 30 gallon drums (net weight 100 lb/ 45 kg) and 55 gallon drums (net weight 183 lb/83 kg) and pallets of 50 lb. bags.



Clearances

All components of STEPANOL WA-100 NF/USP are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Europe (EINECS 205-788-1), Japan (ENCS 2-1679), Canada (DSL 151-21-3), Australia (AICS 151-21-3), United States (TSCA 151-21-3), Philippines (PICCS 151-21-3), Korea (ECL Serial No. KE-21884), Switzerland (Swiss No. G-2596) and China (IECSC 151-21-3).

STEPANOL WA-100 NF/USP is available as Kosher Certified.

STEPANOL WA-100 NF/USP complies with the strength and purity standards of the following: United States Pharmacopeia/National Formulary (USP/NF), British Pharmacopeia (BP), European Pharmacopeia (EP), and the Japanese Pharmacopeia (JP) as determined by Stepan Company assays and tests. Stepan products are manufactured according to ISO 9001:2008 standards. These standards provide the framework for the GMP concepts of our bulk pharmaceutical chemicals.

## STEPANOL WA-100 NF/USP SPECIFICATIONS COMPARED TO COMPENDIAL REQUIREMENTS

|   | Stepan Product | <u>Compendia</u> |     |           |           |
|---|----------------|------------------|-----|-----------|-----------|
| <u>Parameter</u>                                      | WA-100         | <u>USP</u>       | BP  | <u>EP</u> | <u>JP</u> |
| Actives (%, min.)                                     | 97             |                  | 85  | 85        |           |
| Unsulfated alcohol (%, max.)                          | 0.5            | 4.0              | 4.0 | 4.0       | 4.0       |
| Total alcohol (%, min.)                               | 59             | 59               |     |           | 59        |
| NaCl (%, max.)  | 0.2            |                  |     |           |           |
| Na <sub>2</sub> SO <sub>4</sub> (%, max.)             | 1.0            |                  |     |           |           |
| Total salts (NaCl + Na <sub>2</sub> SO <sub>4</sub> ) |                | 8.0              | 8.0 | 8.0       | 8.0       |
| Water (%, max.)                                       | 1.0            |                  |     |           | 5.0       |
| Alkalinity (ml/g, max.)                               | 0.5            | 0.6              | 0.5 | 0.5       | 0.6       |
| Heavy Metals (ppm, max.)                              | 20             | 20               |     |           |           |

Product Stewardship

Additional Safety Information This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

A Safety Data Sheet is available upon request.

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