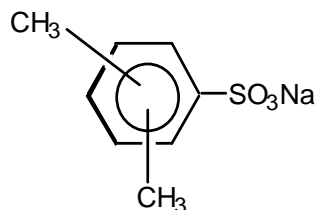


Product Bulletin

Product
Name

STEPANATE® SXS

Chemical
Structure



Chemical
Description

Sodium Xylenesulfonate

CAS
Registry No.

1300-72-7

INCI Name

Sodium Xylenesulfonate

Applications

STEPANATE SXS is used in liquid detergent formulations as a solubilizer, coupling agent and cloud point depressant. The hydrotropic or solubilizing property of STEPANATE SXS allows materials to be incorporated in formulations that normally are incompatible. STEPANATE SXS is also useful in lowering the cloud point or crystallization temperature of complex blends. STEPANATE SXS contains no alcohol so it will not decrease the flash point of your formulation. It is also chemically inert in most formulations.

STEPANATE SXS is commonly used as a coupling agent for surfactants in phosphate and silicate solutions. The coupling ability of STEPANATE SXS makes it possible to formulate detergents containing high percentages of inorganic builders. Heavy duty cleaners, wax strippers and complex dishwashing detergents can also be prepared without the use of organic solvents. It is also used as a non-caking agent in spray dried detergents.

Typical
Properties

Appearance at 25 °C.....	Clear liquid
pH, as is	7.5 - 9.5
Actives, %	40 - 42
Solids, % by Wt	42 - 44
Crystallization Point, °C (°F)	16 (60)
Pour Point, °C (°F)	-9 (16)
Freeze Point, °C (°F).....	-7 (19)
Cloud Point, °C (°F)	-5 (23)
Color, Klett (as is).....	50 max.
Viscosity at 0 °C, cps	21
Viscosity at 25 °C, cps	7
Viscosity at 60 °C, cps	2
Flash Point (PMCC), °C (°F)	>94 (>201)
Density, g/ml (lbs/U.S. gal)	1.164 (9.7)
RVOC, U.S. EPA, %	0

Environmental
Effects

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



Health Effects

STEPANATE SXS is practically non-toxic orally ($LD_{50} = 5 - 6 \text{ g/kg}$); it causes mild eye irritation and skin irritation. The product is also practically non-toxic to relatively harmless to aquatic organisms.

Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling STEPANATE SXS. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

It is recommended that STEPANATE SXS be stored in closed containers and kept in a cool, dry place. Liquipak or HDPE plastic drums are recommended for storage of STEPANATE SXS. If the material is exposed to cooler temperatures, it can crystallize and separate. It should be heated slowly and agitated gently to insure it's homogeneity before use.

Bulk Storage Information: STEPANATE SXS should be stored in 316 stainless steel or fiberglass with a corrosion liner. Mild agitation is recommended while storing to maintain homogeneity. Material should be stored between 23 – 40°C (75 – 105°F). An internal hairpin coil of 316 stainless steel with low pressure steam (under 50 psig) should be used if heating is required. Pumps, pipes and transfer lines should be 316 stainless steel.

Standard Packaging: STEPANATE SXS is available in drums and in bulk quantities.

Workplace Exposure

Occupational exposure can occur primarily through skin contact or via inhalation of vapors and mists. Engineering controls, personal protective equipment, and other workplace practices should be used to control these exposures.

Clearances

The international inventories (country clearances) of STEPANATE SXS can be found in Section 15 of the Safety Data Sheet (SDS). It is the responsibility of the formulator to review the chemical control regulations for each country where the end product is intended to be sold or used. If you have any further questions regarding inventories, please contact North America Technical Service at techserv@stepan.com.

STEPANATE SXS is available in Kosher grade.

STEPANATE SXS is approved in the United States for use under 40CFR 180.920.

STEPANATE SXS meets the U.S. EPA Safe Choice Program's surfactant screen and is listed on www.cleangredients.org (an on-line database for green formulators). For further information, visit www.cleangredients.org. Additional Stepan ingredient listings can be found at www.stepan.com.

Product Stewardship

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

Additional Safety Information

A Safety Data Sheet (SDS) is available upon request.



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Stepan 
Corporate Headquarters
Northfield, Illinois 60093, U.S.A.
Phone: 847-446-7500
Fax: 874-501-2100
Website: www.stepan.com

For Technical Service Call:
Stepan North America **+1-800-745-7837**
Stepan Mexico **+55-11-5089-2208**
Stepan Quimica **+55-11-5089-2200**
Stepan Colombia **+571-636-2808**
Stepan Europe **+33-476-505-160**
Stepan Asia **+656-879-9855**
Stepan Philippines **+656-879-9855**

For Customer Service Call:
Stepan North America **+1-800-457-7673**
Stepan Mexico **+52-555-533-1967**
Stepan Quimica **+55-11-5089-2200**
Stepan Colombia **+57-6-8993125**
Stepan UK **+44-161-338-5511**
Stepan France **+33-476-50-51-00**
Stepan Philippines **+63-2-842-7951**