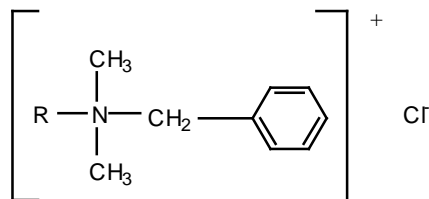


Product Bulletin

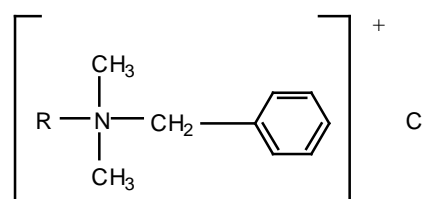
STEPANQUAT® 50 NF and 65 NF

STEPANQUAT 50 NF



R = 50% C₁₂, 30% C₁₄, 17% C₁₆, 3% C₁₈

STEPANQUAT 65 NF



R = 67% C₁₂, 25% C₁₄, 7% C₁₆, 1% C₈, C₁₀, C₁₈

n-Alkyl Dimethyl Benzyl Ammonium Chloride

Benzalkonium Chloride

STEPANQUAT 50 NF

STEPANQUAT 65 NF

68391-01-5

63449-41-2

STEPANQUAT 50 NF and STEPANQUAT 65 NF are benzalkonium chloride solutions for broad spectrum preservation of personal care and pharmaceutical products such as eye contact lens solutions and topical antiseptics.

	<u>STEPANQUAT 50 NF</u>	<u>STEPANQUAT 65 NF</u>
Appearance at 25 °C.....	Clear liquid	Clear liquid
Actives, %	50	50
Equivalent Weight	360	350.5
pH, 10% aqueous.....	7.10	7.1
Free amine and amine hydrochloride, %.....	1.0 max	1.0 max
Color, APHA.....	200 max	130 max
Viscosity, cps at 25 °C.....	75	60
Pour Point, °C (°F)	-8 (18)	-4 (25)
Cloud Point, as is, °C (°F)	-2 (28)	-3 (27)
Flash Point, PMCC, °C (°F).....	52 (126)	56 (133)
Density, g/ml (lbs/U.S. gal).....	0.97 (8.1)	0.97 (8.1)
RVOC, U.S. EPA, % Ethanol	5	4

STEPANQUAT products are biodegradable. Additional information is available upon request.

STEPANQUAT 50 NF and STEPANQUAT 65 NF are moderately to slightly toxic orally (LD₅₀ between 50-500 mg/kg) and are corrosive to skin and eyes at 50% active.

Handle liquid STEPANQUAT 50 NF and 65 NF products with care; use away from sparks and open flame. Use in a well ventilated area. Avoid contact with eyes, nose or prolonged skin contact. Gloves, protective clothing, safety goggles and face shield should be worn when handling STEPANQUAT 50 NF and 65 NF. Wash thoroughly after handling material.

Standard Packaging: STEPANQUAT 50 NF and STEPANQUAT 65 NF products are available in drums and in bulk quantities.

Product Name

Chemical Structure

Chemical Description

INCI Name

CAS

Registry No.

Applications

Typical Properties

Environmental Effects

Health Effects

Storage & Handling



Storage & Handling

It is recommended that STEPANQUAT products be stored in sealed containers and kept in a cool, dry place. If material is frozen it should be heated gently and stirred to ensure it is homogeneous before use.

Bulk Storage Information: STEPANQUAT 50 NF and 65 NF can be stored in vessels of 316 stainless steel or fiberglass with a corrosion liner. Contact between quaternaries and anionic materials, soap and sulfated oils must be avoided. At use dilution, STEPANQUAT 50 NF and 65 NF are non-corrosive to most plastics, natural rubber, stainless steel, monel metal, iron, brass, aluminum, lead and tin; however, STEPANQUAT 50 NF and 65 NF as supplied, may be corrosive to the materials listed above.

STEPANQUAT 50 NF and 65 NF should be stored between 85 - 120 °F (29-49 °C). An internal hairpin coil of 316 stainless steel with low pressure steam (under 50 psig) should be used if heating is required. Mild agitation is recommended while storing to maintain homogeneity. Pumps, pipes and transfer lines should be 316 stainless steel. Rubber hoses with Teflon cross-linked polyethylene with 316 stainless steel fittings are recommended for loading and unloading.

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 STEPANQUAT 50 NF and STEPANQUAT 65 NF 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.

STEPANQUAT 50 NF and 65 NF comply with the strength and purity standards of the United States Pharmacopeia as determined by Stepan Company assays and tests. Stepan products are manufactured according to ISO 9001:2015 standards. STEPANQUAT 50 NF and STEPANQUAT 65 NF are not manufactured to excipient cGMP requirements at this time.

The STEPANQUAT 50 NF and STEPANQUAT 65 NF are available as Kosher Certified.

Product Stewardship

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

Additional Safety Information

A Safety Data Sheet is available upon request.



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