



Product Bulletin

Product Name	STEPOSOL® CITRI-MET (Patent Pending)
Chemical Description	STEPOSOL CITRI-MET is a formulated cleaner concentrate, comprised of surfactant emulsifiers, STEPOSOL MET-10U, orange terpenes, and sodium carbonate.
Applications	STEPOSOL CITRI-MET is a moderately alkaline, concentrated cleaning blend of solvents and surfactants that can be used at several different dilutions, depending on the soil and surface being cleaned. From as-is to 1:4 dilutions with water, it functions as a graffiti remover, latex paint stripper, and heavy oil/tar removal. At dilutions in the range of 1:14, it can function as a marker and ink remover, degreaser, bug/tar remover, blood stain remover, carpet cleaner, and laundry pre-wash spot remover. At higher levels of dilution, it can be used as an all-purpose or glass cleaner.
	<p><u>Functional Properties:</u></p> <ul style="list-style-type: none"> • Instant Wetting • High Cloud Point • High Density • Low Pour Point • High Flash Point <p><u>End-Use Applications:</u></p> <ul style="list-style-type: none"> • Graffiti Removal • Bug and Tar Remover • Degreaser • Kitchen Cleaner • Marker/Ink Remover • Wall and Tile Cleaner • All-Purpose Cleaner • Oilfield Rig Wash • Carpet Cleaner • Laundry Pre-Treat • Industrial Laundry
Typical Properties	<p>Appearance at 25°C Clear to slightly hazy liquid</p> <p>Solids, % 51</p> <p>Water, % 36</p> <p>pH, as is 10.8</p> <p>Color, %Transmittance at 420nm >80</p> <p>Viscosity at 25°C, cps 25</p> <p>Flash Point (PMCC), °C (°F) 57.5 (135.5)</p> <p>Cloud Point (as is), °C (°F) >70 (>158)</p> <p>Pour Point, °C (°F) -16 (3)</p> <p>Density at 25°C, g/mL (lbs/U.S. gal) 1.08 (9.04)</p> <p>Critical Micelle Concentration (CMC), mg/L 40.4</p> <p>Surface Tension at CMC, dynes/cm 31.8</p> <p>Draves Wetting at 25°C, 1:100 dilution, sec 0</p> <p>Draves Wetting at 25°C, 1:500 dilution, sec 8</p> <p>Draves Wetting at 25°C, 1:1000 dilution, sec 67</p> <p>RVOC, U.S. EPA, % 7.5</p> <p>HLB Contains components that bridge HLB from 0 - 6 - 14 - 20</p> <p>Hansen Parameters Contains components that span the entire Hansen Chart</p> <p>Preservative None</p>
Environmental Effects	Based on the components, STEPOSOL CITRI-MET is expected to be readily biodegradable. Additional information is available upon request.



Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling STEPOSOL CITRI-MET. Contact with eyes, nose or prolonged contact with skin should be avoided. Wash thoroughly after handling STEPOSOL CITRI-MET. Stepan's recommended retest date for this product is 36 months (3 years) from the date of manufacture. After 36 months, we recommend that the customer re-analyze to ensure product is within specification.

Standard Packaging: STEPOSOL CITRI-MET is available in bulk, 55-gallon drums, and tote quantities.

Bulk Storage Information: STEPOSOL CITRI-MET can be stored in tanks made of 316 stainless steel or HDPE.

Recommended Storage Temperature: 50-122°F (21-50°C).

Maximum Storage Temperature: 122°F (50°C)

Recommended Storage Conditions: It is recommended that STEPOSOL CITRI-MET be stored in a dry place in sealed containers at 50-122°F (10-50°C). Avoid overheating or freezing.

Freeze Statement: If material is frozen or appears to have separated, warm to room temperature with agitation and mix to homogenize before sampling to ensure the product is completely homogenous. If sampling is conducted without mixing, both the sample taken and the remaining material in the container may no longer be representative of STEPOSOL CITRI-MET. Ensure the material is homogenous (single phase of clear to slightly hazy liquid) before use and /or dilution to final product concentration.

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 safety practices should be used to control these exposures. See SDS for more information.

Clearances

The international inventories (country clearances) of STEPOSOL CITRI-MET 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.

Performance

Coatings Removal Test (ASTM D6189-97): STEPOSOL CITRI-MET cleans coatings effectively. Greater than 90% removal of spray paint graffiti, latex paint, tar, and dried-on crude oil is observed within 10 minutes when used at 1:4 dilution. Greater than 90% simulated road tar is removed within 2 minutes when used at 1:14 dilution.

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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