

Product Name	STEPAN® 3109-6
Chemical Description	STEPAN 3109-6 is a surfactant blend developed for use as an agricultural adjuvant.
CAS Registry Number	Proprietary
Applications	STEPAN 3109-6 can be used in a variety of agricultural formulations, including soluble concentrates (SL), water dispersible granules (WG), wettable powders (WP) and ready-to-use (RTU).
Typical Properties	<p>Appearance at 25°C Clear amber liquid</p> <p>pH, 5% aqueous 9.5</p> <p>Moisture, %30</p> <p>Density at 25°C, g/ml (lbs/U.S. gal) 0.988 (8.24)</p> <p>Boiling Point, °C (°F) >100 (>212)</p> <p>Pour Point, °C (°F) 7.8 (46)</p> <p>Flash Point, PMCC, °C (°F) >94 (>201)</p> <p>Viscosity at 25°C, cps 330</p> <p><u>Solubility:</u></p> <p>Water Soluble</p> <p>Methanol Soluble</p> <p>Kerosene Insoluble</p> <p>Xylene Dispersible</p>
Environmental Effects	STEPAN 3109-6 is expected to be biodegradable. A detailed biodegradability statement is available upon request.
Health Effects	STEPAN 3109-6 is slightly toxic dermally in rats (LD ₅₀ > 2000 mg/kg) and is corrosive to the eyes and moderately irritating to skin when tested as is. The product is not a skin sensitizer.
Storage & Handling	<p>Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling STEPAN 3109-6. Contact with eyes and prolonged contact with skin should be avoided. Wash thoroughly after handling materials.</p> <p><u>Standard Packaging:</u> STEPAN 3109-6 is available in drum or bulk quantities.</p> <p><u>Non-Bulk Storage Recommendations:</u> STEPAN 3109-6 should be stored in closed containers and kept in a cool, dry place away from incompatible materials (see Section 10 of the SDS). STEPAN 3109-6 that has been stored in drums at low temperatures may thicken or solidify. Product may be fluidized by warming with a drum heater or in a steam room. If material is frozen it should be heated gently and stirred to ensure it is homogenous prior to use. Drums should be vented prior to heating to avoid excessive pressure build up. Product temperatures over 120°F (48°C) are not recommended.</p>



Bulk Storage Recommendations: STEPAN 3109-6 should be stored in vessels of 316 stainless steel and glass fiber-reinforced tanks. Heating and agitation are recommended for outside storage. Material should be stored between 80-100°F (26-38°C). 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 steels. Many oven-cured phenolic and epoxy/phenolic linings may also be used. Elevated storage temperature may be desirable to maintain ease of pumping. Temperatures up to 120°F (48°C) can be maintained without degradation of the product.

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 STEPAN 3106-9 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.

STEPAN 3106-9 is approved for food use under U.S. EPA 40 CFR 180.920, pre-harvest applications, limited to 62.5% by weight in herbicide formulations and 25% by weight in insecticide and fungicide formulations.

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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