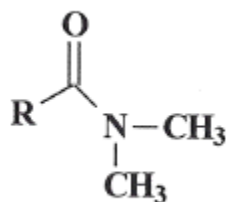


Product Name

STEPOSOL[®] M-8-10

Chemical Structure



R= C₇H₁₅ or C₉H₁₉

Chemical Description

STEPOSOL M-8-10 is a [N, N-dimethyloctanamide (N, N-dimethylcaprylamide) and N, N-dimethyldecanamide (N, N-dimethylcapramide)].

CAS Registry No.

1118-92-9, 14433-76-2

Applications

STEPOSOL M-8-10 belongs to a unique class of disubstituted amides with utility in coatings, household, industrial and institutional applications. STEPOSOL M-8-10 displays a broad range of properties, including excellent solvency, a low VOC content, as well as heat and hydrolysis stability.

Typical Properties

Appearance at 25 °C.....	Clear liquid
Viscosity at 25 °C, cps	11
pH, 1% aqueous.....	7.4
Density at 25 °C, g/ml (lbs/U.S. gal)	0.88 (7.3)
Color, Gardner	2 max.
Color, APHA.....	8
Cloud Point, °C (°F).....	<-20.0 (<-4.0)
Pour Point, °C (°F)	-19.6 (-3.3)
Freeze Point, °C (°F).....	-34.0 (-29.2)
Melting Point, °C (°F)	-17.0 (1.4)
Boiling Point, °C (°F)	260 (500)
Flash Point, PMCC °C (°F).....	118 (245)
Dielectric Constant at 25 °C	17.00
Refractive Index at 20 °C	1.452
Surface Tension (as is), dynes/cm	30.9
Kauri-Butanol Value or KB Value	>300
VOC, CARB 310, %	32.6
Solubility	
Water	Partially Soluble
Methanol.....	Soluble
Kerosene	Soluble
Xylene.....	Soluble

Other Data

DOT Classification

Non-regulated



Biodegradability

This product is readily biodegradable. Additional information is available upon request.

Toxicity

STEPOSOL M-8-10 was found to be slightly toxic orally ($LD_{50} = 1,750$ mg/kg). Undiluted product may cause severe eye and skin irritation.

Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling STEPOSOL M-8-10. Contact with eyes and prolonged contact with skin should be avoided. Wash thoroughly after handling materials.

Bulk Storage Information: Stainless steel tanks are recommended. Temperatures up to 130 °F (54 °C) can be maintained for long periods of time without degradation of the product.

Standard Packaging: Available in drums (390 lb, 177 kg) or bulk.

Clearances

All components of STEPOSOL M-8-10 are listed in the following countries; the registration number for the active ingredient is included in parentheses: United States (TSCA 1118-92-9, 14433-76-2), Canada (NDSL 1118-92-9, 14433-76-2), Australia (AICS 1118-92-9, 14433-76-2), China (IECSC 1118-92-9, 14433-76-2), Japan (ENCS 2-825), Europe (EINECS 214-272-5, 238-405-1).

Per the California Air Resources Board's (CARB) Consumer Product Rule, OTC Model Rule and Federal VOC Standards, STEPOSOL M-8-10 is exempt from VOC limit requirements because it is a LVP-VOC (low vapor pressure VOC). All regulations define an LVP-VOC as a compound or mixture which meets one of the following criteria: 1) The compound has a vapor pressure of less than 0.1 mm Hg at 20 °C; 2) the compound has more than 12 carbon atoms, or a mixture comprised solely of compounds with more than 12 carbon atoms, and the vapor pressure is unknown or 3) the compound has a boiling point greater than 216 °C.

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.

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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