

ecomate®

ECOMATE® is a colorless, flammable liquid ester which has a faint, pleasant, fruity odor.

It is highly soluble in water, and miscible with most organic solvents, including other foam blowing agents. ECOMATE is readily soluble in all urethane raw materials at common levels currently used in urethane formulations.

PHYSICAL PROPERTIES

Auto Ignition Temperature	465°C (869°F)
Boiling Point @ 760 mm Hg	31.5°C (88.7°F)
Critical Pressure	60 bars (870 psia)
Critical Temperatures	214°C (417°F)
Evaporation Rate (Ether = 1)	1.6
Flammable Limits	
LEL, vol %	5%
UEL, vol %	23%
Flash Point – Tag Closed Cup	-19°C (-2°F)
Freezing Point	-100°C (-148°F)
Heat of Vaporization, at normal boiling point	471 J/g (202.3 BTU/lb)
Molecular Formula	C ₂ H ₄ O ₂
Molecular Weight	60.05
Refractive Index	1.3434 n ²⁰ D
Solubility at 20°C (68°F), wt % in water	33.0%
Specific Gravity @ 20°C (68°F)	0.980
Specific Heat of Liquid @ 20°C (68°F)	2.06 J/g/°C (0.493 BTU/lb/°F)
Surface Tension in Air @ 25°C (77°F)	24.62 dynes/cm
Threshold Limit Value (TLV)	100 ppm
Vapor Density (Air = 1)	2.07
Vapor Pressure @ 20°C (68°F)	64 kPa (9.2 psia)
Viscosity @ 25°C (77°F)	0.355 cP

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SAFETY FIRST!

When working with any chemicals it is necessary to wear eye protection and gloves. It is necessary to understand hazards involved in handling all components, establish and follow safe work procedures, and comply with all OSHA, DOT, and EPA Regulations. Refer to SDS for specific details. All persons who work with components must know and follow proper safe handling procedures.

SHELF LIFE:

Twelve (12) months from date of manufacture when stored in original, unopened, containers at temperatures between 65–80°F. Consult with Foam Supplies, Inc. before disposal or return if components exceed shelf life.

HANDLING:

As with all chemicals, care should be exercised when handling. Avoid contact with eyes, skin, and clothing. Eye protection and gloves are considered a minimum requirement and should be worn at all times while working with components. Refer to SDS for specific details regarding handling requirements.

STORAGE:

Do not store in direct sunlight. Containers should be stored under cover and protected from contact with rain or snow. Water should not be able to accumulate where it can be drawn into the containers. Ideal storage temperatures are 50°F (10°C) to 75°F (24°C). Keep containers sealed until use. Refer to SDS for further information or contact Foam Supplies, Inc. for assistance.

STEWARDSHIP:

Foam Supplies, Inc. and its subsidiaries are committed to stewardship and have a concern for the health and safety of all individuals who come in contact with its products, as well as the environment. This philosophy is a foundation on which we assess information to appropriately protect individuals and preserve our environment. Success of stewardship rests with each and every individual involved in the cradle to grave life cycle of our products.

CUSTOMER RECOMMENDATIONS:

Foam Supplies, Inc. strongly encourages customers to review their manufacturing, health, safety, and environmental processes and applications while evaluating its products.

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