



PRODUCT INFORMATION SHEET

ecomate® - Foam Blowing Agent

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.

Ecomate and the use of is patented as a foam blowing agent [US 6,753,357, etc].

HEALTH & SAFETY ISSUES

Before use please refer to the MATERIAL SAFETY DATA SHEET for information on the correct handling procedures for this product and the Safety Issues and Hazards associated with its use.

CAS Registry #: **107-31-3**

EINICS #: **203-481-7**

UN #: **1243**

Harmonized Tariff Code: **2915.13.5000**



Success
through
Innovation

PHYSICAL PROPERTIES

Auto-ignition temperature	465°C	869°F
Boiling Point at 760 mm Hg	31.5°C	88.7°F
Critical Pressure, atmospheres / psi / bars	59.25 / 87 / 60	
Critical Temperatures	214°C	417°F
Evaporation Rate (Ether = 1)	1.6	
Flammable Limits		
- (LEL, vol %)	5	
- (UEL, vol %)	23	
Flash Point		
- Tag Open Cup	-19°C	-2°F
- Tag Closed Cup	-32°C	-26°F
Freezing Point	-100°C	-148°F
Heat of Vaporization, btu/lb at normal boiling point	202.3	
Molecular Formula	C2 H4O2	
Molecular Weight	60.05	
Refractive Index, n ²⁰ _D	1.3434	
Solubility at 20°C (68°F), wt % in water	33.0	
Specific Gravity, 20°C / 20°C	0.980	
Specific Heat of Liquid, btu/lb/°F at 68°F	0.493	
Surface Tension in air at 25°C (77°F), dynes/cm	24.62	
Threshold Limit Value (TLV) ppm	100	
Vapor Density (air=1)	2.07	
Vapor Pressure, 20°C (68°F), mm Hg	476.4	
Viscosity at 25°C (77°F), centipoise	0.355	
Weight lbs/gal and kg/liter at 20°C (68°F)	0.98 Kg	8.17 Lbs

"Fire Protection Guide on Hazardous Materials", National Fire Protection Association, Sixth Edition, 1975

* This information is based on our present state of knowledge and is intended to provide general notes on our products and their use. It should therefore not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.



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