



ecomate® FOAM BLOWING AGENT

Product Name:

Ecomate®

CAS Registry Number:

107-31-3

EINICS Number:

203-481-7

UN Number:

1243

Harmonized Tariff Code:

2915.13.5000

DESCRIPTION

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. Neat Ecomate® is flammable.

Ecomate® and the use of is governed by world-wide patents as a foam blowing agent [US 6,753,357, etc].

PRODUCT STEWARDSHIP

FSI has a concern for all who make, distribute, and use its products. We strive to improve ecology through chemistry, keeping human health and environmental concerns foremost at all times. These concerns are the foundation for our product stewardship philosophy, by which we assess the health and environmental information for our products. FSI will always take the necessary steps to provide employee, customer, and public health, as well as the health of the environment. Our product stewardship program is the responsibility of every individual involved with our products; from the primary concept and research, to the production, application, sale, and distribution of each product.

DETECTION and PERSONAL PROTECTION EQUIPMENT

Ecomate® can be detected at levels as low as 0.0002 PCT (2ppm) with both fixed and personal detection equipment. FSI can provide names of companies that offer Detection and Personal Protection Equipment if necessary.

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.

HANDLING

- Thoroughly review the Material Safety Data Sheet before handling product.
- Keep containers closed when not in use.
- Open containers slowly to allow any excess pressure to vent.
- Keep away from heat, sparks, flame, or other sources of ignition.
- Use proper electrical grounding and bonding procedures when loading, unloading and transferring.
- Use spark resistant tools.
- Only use dry nitrogen to pressurize containers.
- FSI is able to offer safety & technical advice on offloading procedures.

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STORAGE

- Small containers – should be kept in a cool, dry, well ventilated area.
- Larger containers and bulk – FSI is able to offer advice on storage specification.

MATERIALS OF CONSTRUCTION FOR STORAGE

Tank	Stainless steel, carbon steel*, Aluminum, Lined Carbon Sheet
Piping	Stainless steel, carbon steel*, Aluminum, Lined Carbon Sheet
Valves	Stainless steel, carbon steel*, Aluminum, Lined Carbon Sheet
Pumps	Stainless steel, carbon steel*, Aluminum, Lined Carbon Sheet
Relief valves	Stainless steel, carbon steel*, Aluminum, Lined Carbon Sheet
Gaskets	Glass filled with PTFE
Valve Packaging	PTFE
Pipe and connections	Welded and flanged system
Pump Seals	Single mechanical seal:

Stainless steel / Hastelloy
C-276 metallic components
Kalrez O-rings

* requires control measures

PACKAGE SIZES

All packaging sizes and fill weights may vary slightly depending on customer requirements.

Returnable cylinders – only dry nitrogen to be used to pressurize these cylinders.

DO NOT over-pressurize any cylinder – 7.25 psi (0.5 bar) is sufficient.

SIZE	CONTENTS		NET WT.		TOTAL WT. (PACKAGE + CONTENTS)	
	U.S.	Metric	U.S.	Metric	U.S.	Metric
1-gallon Can	1 gallon	3.8 liters	8.1 lb.	3.7 kg.	10.7 lb.	4.9 kg.
5-gallon Can	5 gallons	18.9 liters	40.5 lb.	18.4 kg.	47.5 lb.	21.6 kg.
55-gallon Drum	55 gallons	208 liters	450 lb.	204 kg.	491 lb.	223 kg.
F-6000 Pressurized Tank	306 gallons	1,158 liters	2,500 lb.	1,134 kg.	3,600 lb.	1,633 kg.
Bulk	≤ 44,000 lb.	≤ 20 tonnes	N/A	N/A	N/A	N/A