Ethyl Lactate
9630 Technical Data Sheet

Description

The 9630 *Ethyl Lactate* is a green solvent with effectiveness comparable to petroleum-based solvents. It is 100% biodegradable and biomass derived, as well as being environmentally safe. This solvent has relatively low toxicity and is often used in coating, pharmaceutical, detergent, food, and fragrance production.

Benefits and Features

- **High boiling point**—Easy and inexpensive to recycle
- **Low vapor pressure—**Easy and inexpensive to recycle
- **Slow evaporation rate**
- **Alternative solvent for "hazardous air pollutants"**
- **Highly miscible with other common organic solvents**

ATTENTION!
INDUSTRIAL OR LABORATORY USE ONLY
NOT FOR RETAIL SALE

Principal Components

Name	***CAS Number***
Ethyl lactate	*97-64-3*

Storage Parameters

Properties	***Value***
Shelf Life @23 °C [73 °F]	5 y
Storage Temperature [a)]	-20 to 40 °C [32 to 104 °F]

a) Storage below zero is not necessary. Cool, dry, and well ventilated area is recommended.

Date: 03 May 2017 / Ver. 1.02

Properties

Physical Property	*Method*	*Value*
Color		Clear
Odor		Fruity
Density @25 °C [77 °F]		1.03 g/mL
Viscosity @25 °C [77 °F]		4.7 cP [0.0047 Pa·s]
Flash Point	Tag Closed Cup	46 °C [115 °F]
Freezing Point		-26 °C [-15 °F]
Boiling Point		≥154 °C [≥309 °F]
Vapor Pressure @20 °C [68 °F]		0.3 kPa [2.3 mmHg]
Relative Evaporation Rate		0.22 (ButAc = 1)
Volatile Organic Compound (VOC)		100% [1 030 g/mL]
MIR value		2.39
Solubility Parameters		***Value***
Solubility in water (%wt)		∞ Fully Miscible
Solubility for water (%wt)		∞ Fully Miscible
Hansen Solubility Parameters [a]	Total	11 [21.7]
$(cal/cm^3)^{½}$; $[MPa]^{½}$	*Non-Polar*	7.8 [16.0]
	Polar	3.7 [7.6]
	Hydrogen Bonding	6.1 [12.5]

a) Hansen parameters calculate using component literature values and volume fraction composition.

Compatibility

Substrate Compatibility: The 9630 is compatible with most substrate materials found on printed circuit assemblies.

Dissolved Resins: The 9630 can solvate the following resins

- Acetyl butyl cellulose
- Acetyl cellulose
- Ethyl cellulose
- Nitro cellulose
- Vinyl acetate
- Vinyl butyral
- Vinyl chloride acetate polymer
- Polymethyl methacrylate
- Uncured epoxy resins

Solvent Miscibility: The 9630 is highly miscible with other common organic solvent. It can be mixed with

- Water
- Alcohols
- Ethers
- Chloroform

Health, Safety, and Environmental Awareness

Please see the 9630 **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

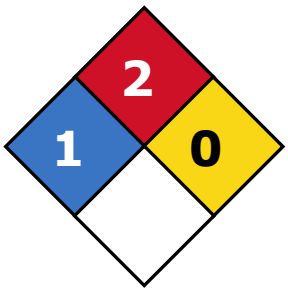
Environmental Impact: The 9630 has volatile organic content of 100% [1 030 g/L]. It is RoHS compliant.

Health and Safety: This liquid is highly flammable and should be kept away from flames and other ignition sources. Avoid breathing in fumes or direct contact with the material.

HMIS® RATING

HEALTH:	* 1
FLAMMABILITY:	2
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:
0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

Packaging and Supporting Products

Cat. No.	*Packaging*	*Net Volume*		*Net Weight*	
9630-1L	Can	945 mL	31.9 fl oz	973 g	2.15 lb
9630-4L	Can	3.78 L	1 gal	3.89 kg	8.58 lb
Contact MG Chemicals if custom packaging or sizes are required					

Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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Warranty

M.G. Chemicals Ltd. warranties this product for 12 months from the date of purchase by the end user. *M.G. Chemicals Ltd.* makes no claims as to shelf life of this product for the warranty. The liability of *M.G. Chemicals Ltd.* whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

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