Thinner 2
4352 Technical Data Sheet

Description

The 4352 *Thinner 2* is a moderately fast drying thinner for use with MG Chemical's conformal products. It is compatible with film forming paint products with acrylic, alkyd, cellulose acetate butyrate, epoxy, nitrocellulose, or polyester resins. Together with these type of resin systems, the 4352 thinner promotes good flow properties and suppresses blushing.

Features and Benefits

- **Plastic Safe**: compatible with most sensitive substrate used in electronic parts and enclosures
- **Blush Resistant**
- **Moderate Evaporation Rate**
- **Excellent Leveling and Gloss**
- **Not Classified as a "Hazardous Air Pollutant"**
- **Highly Miscible with Other Common Organic Solvents**

Principal Components

Name	***CAS Number***
N-butyl acetate	*123-86-4*

Properties

Physical Property	***Method***	***Value***
Color		Clear
Odor	—	fruity
Density at 25°C [77 °F]		0.883 g/mL
Viscosity at 25°C [77 °F]	Brookfield SP1	28 cP [0.028 Pa·s]
Flash Point	Tag Closed Cup	27°C [81 °F]
Freezing Point		-77 °C [126 °F]
Boiling Point		127 °C [257 °F]
Vapor Pressure at 25°C [77 °F]		1.33 kPa [10.0 mm of Hg]
Relative Evap. Rate (BuAc = 1)		1
Volatile Organic Content (VOC)		100% [883 g/mL]
MIR value		0.78

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Solvation Parameters		Value
Solubility in water (%wt)		0.7%
Solubility for water (%wt)		1.6%
Hansen Solubility Parameters	Total	17.2 [8.4]
$(MPa)^{½}$; $[cal/cm^3]^{½}$	*Non-Polar*	15.3 [7.5]
	Polar	3.2 [1.6]
	Hydrogen Bonding	6.8 [3.3]
Dielectric constant @20 °C		5.07

Compatibility

Substrate Compatibility: The 4352 *Thinner 2* is compatible with most substrate materials found on printed circuit assemblies.

Solvent Miscibility: The 4352 is highly miscible with other common organic solvent. It can be mixed with

- Alcohols
- Aldehydes
- Aromatic and Aliphatic Hydrocarbons
- Ethers
- Glycols
- Glycol Ethers
- Ketones

Health, Safety, and Environmental Awareness

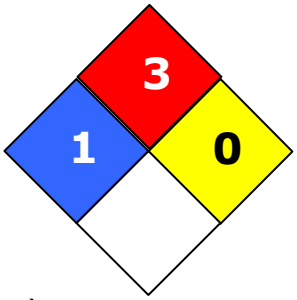
Please see the 4352 **Material Safety Data Sheet** (MSDS) for more details on transportation, storage, handling and other security guidelines.

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:	**3**
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)

Environmental Impact: The 4352 is rapidly biodegradable and has a low aquatic toxicity. It has volatile organic content of 100% (w/w) [or 883 g/L], and it is RoHS compliant.

Thinning Instructions

Make necessary adjustments according to your paint and spray gun equipment usage instructions. A 1.0 (paint):1.0 (thinner) dilution is a common starting point. If sagging is observed, reduce the thinner ratio.

Packaging and Supporting Products

Cat. No.	*Form*	*Net Volume*	*Net Weight*	*Shipping Weight*
4352-1L	Liquid	950 mL 32 fl oz	0.84 kg 1.8 lb	5.5 kg 11.5 lb (×5) [b]
4352-4L	Liquid	3.8 L 1 gal	3.36 kg 7.4 lb	3.8 kg 8.3 lb
Contact MG Chemicals if custom packaging or sizes are required				

a) Pack of ten cans
b) Pack of five bottles

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.

Email: support@mgchemicals.com

Phone: 1-800-340-0772 Ext. 30 (Canada, Mexico & USA)
1-905-331-1396 Ext. 30 (International)
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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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