

### Description

The 4353 *Thinner 3* is a moderate speed drying thinner for use with the MG Chemical's conformal products. The thinner promotes good flow properties and suppresses blushing.

### Application

The moderate speed drying time of the 4353 makes it a good choice for dip or brush application of acrylic conformal coatings like the MG 419D.

### Features and Benefits

- **Blush Resistant**
- **Fast Evaporation Rate**
- **Excellent Leveling and Gloss**
- **Highly Miscible with Other Common Organic Solvents**
- Compatible with most substrates used in electronic parts and enclosures

### Principal Components

Name	CAS Number
toluene	108-83-3
methyl ethyl ketone	78-93-3

### Properties

<i>Physical Property</i>	<i>Method</i>	<i>Value</i>
Color		Clear
Odor	—	sharp, aromatic
Density at 25°C [77 °F]		0.85 g/mL
Viscosity at 25°C [77 °F]	Brookfield SP1	0.5 cP [0.0005 Pa·s]
Flash Point	Tag Closed Cup	-1 °C [30 °F]
Freezing Point		<-86 °C [<-66 °F]
Boiling Point		82 °C [180 °F]
Vapor Pressure at 25°C [77 °F]		6.05 kPa [45.4 mm of Hg]
Relative Evap. Rate (BuAc = 1)		3.77
Volatile Organic Content (VOC)		100% [850 g/mL]
MIR value		3.15

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<i>Solvation Parameters</i>		<i>Value</i>
Solubility in water		slightly soluble
Hansen Solubility Parameters <sup>a)</sup> (cal/cm <sup>3</sup> ) <sup>1/2</sup> ; [MPa] <sup>1/2</sup>	Total	9.0 [18.3]
	<i>Non-Polar</i>	8.4 [17.2]
	<i>Polar</i>	1.9 [3.8]
	<i>Hydrogen Bonding</i>	1.5 [3.0]

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

## Compatibility

**Substrate Compatibility:** The 4353 *Thinner 3* is compatible with most substrate materials found on printed circuit assemblies.

**Solvent Miscibility:** The 4353 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

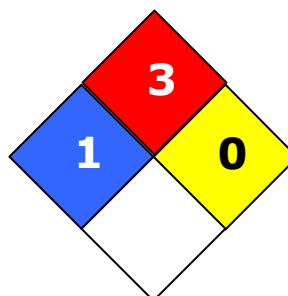
Please see the 4353 **Material Safety Data Sheet** (MSDS) for more details on transportation, storage, handling and other security guidelines.

**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

<b>HEALTH:</b>	<b>1</b>
<b>FLAMMABILITY:</b>	<b>3</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

### 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 4353 has volatile organic content of 100% (w/w) [or 883 g/L]. It is RoHS compliant. The toluene component is classified as a hazardous air pollutant.

### 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

<i>Cat. No.</i>	<i>Form</i>	<i>Net Volume</i>	<i>Net Weight</i>	<i>Shipping Weight</i>
<b>4353-1L</b>	Liquid	950 mL 32 fl oz	0.81 kg 1.8 lb	5.5 kg 11.5 lb (×5) <sup>a)</sup>
<b>4353-4L</b>	Liquid	3.8 L 1 gal	3.24 kg 7.1 lb	3.8 kg 8.3 lb

Contact MG Chemicals if custom packaging or sizes are required

a) 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](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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

Fax: 1-905-331-2862 or 1-800-340-0773

Mailing address: **Manufacturing & Support**  
1210 Corporate Drive  
Burlington, Ontario, Canada  
L7L 5R6

**Head Office**  
9347-193rd Street  
Surrey, British Columbia, Canada  
V4N 4E7

### 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.

### Disclaimer

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