

Description

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

Applications & Usages

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.

Benefits and Features

- **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**

ATTENTION! FOR INDUSTRIAL OR LABORATORY USE ONLY. NOT FOR RETAIL SALE IN CALIFORNIA, UTAH, AND NEW HAMPSHIRE.

Principal Components

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

Storage Parameters

Properties	Value
Shelf Life @22 °C [72 °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.

Properties

<i>Physical Property</i>	<i>Method</i>	<i>Value</i>
Color Odor Density @25 °C [77 °F] Viscosity @25 °C [77 °F] Flash Point Freezing Point Boiling Point Vapor Pressure @25 °C [77 °F] Relative Evaporation Rate Volatile Organic Compound (VOC) MIR value	Tag Closed Cup	Clear Aromatic 0.85 g/mL <20.5 mm ² /s -1 °C [30 °F] <-86 °C [<-66 °F] 82 °C [180 °F] 6.05 kPa [45.4 mmHg] 3.77 (ButAc = 1) 100% [850 g/mL] 3.15
<i>Solubility Parameters</i>		<i>Value</i>
Solubility in water Hansen Solubility Parameters ^{a)} (cal/cm ³) ^{1/2} ; [MPa] ^{1/2}	Total Non-Polar Polar Hydrogen Bonding	slightly soluble 9.0 [18.3] 8.4 [17.2] 1.9 [3.8] 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 **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

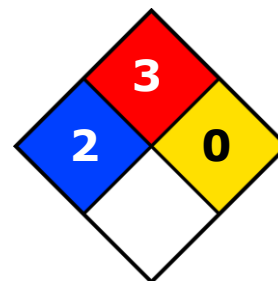
Environmental Impact: The 4353 has volatile organic content of 100% [850 g/L]. It is RoHS compliant. The toluene component is classified as a hazardous air pollutant.

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:	* 2
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)

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>Packaging</i>	<i>Net Volume</i>		<i>Net Weight</i>		<i>Packaging Weight</i>	
4353-1L	Can	945 mL	31.9 fl oz	803 g	1.77 lb	5.0 kg ^{a)}	11 ^{a)}
4353-4L	Can	3.78 L	1 gal	3.21 kg	7.08 lb	3.24 kg	7.14 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.

Email: support@mgchemicals.com

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Warranty

M.G. Chemicals Ltd. warrants 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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