

Description

The 9650 *Methyl Ethyl Ketone (MEK)* is a moderately, fast drying solvent that shows very good solvency for many synthetic and natural resins used in inks and coatings.

Benefits and Features

- **Fast evaporation rate**
- **Highly miscible with other common organic solvents**

ATTENTION!
INDUSTRIAL OR LABORATORY USE ONLY
NOT FOR RETAIL SALE

Principal Components

| | |
|--|------------------------------|
| Name methyl ethyl ketone (MEK) | CAS Number 78-93-3 |
|--|------------------------------|

Storage Parameters

| <i>Properties</i> | <i>Value</i> |
|--|------------------------------------|
| Shelf Life @22 °C [72 °F] Storage Temperature ^{a)} | 5 y -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 Properties</i> | <i>Method</i> | <i>Value</i> |
|---------------------------------|----------------|-------------------------|
| Color | | Clear |
| Odor | | Characteristic |
| Density @25 °C [77 °F] | | 0.81 g/mL |
| Viscosity @20 °C [68 °F] | | 0.52 mm ² /s |
| Flash Point | Tag Closed Cup | -3 °C [27 °F] |
| Freezing Point | | -86 °C [-123 °F] |
| Boiling Point | | 80 °C [176 °F] |
| Vapor Pressure @25 °C [77 °F] | | 95 hPa [71 mmHg] |
| Relative Evaporation Rate | ASTM D3539 | 4 (nButAc= 1) |
| Volatile Organic Compound (VOC) | | 100% [805 g/mL] |
| MIR | | 0.429 |

continued on the next page

| <i>Solubility Parameters</i> | | <i>Value</i> |
|--|-------------------------|--------------|
| Solubility in water | | 25% (w/w) |
| Hansen Solubility Parameters ^{a)} (cal/cm ³) ^{1/2} ; [MPa] ^{1/2} | Total | 9.1 [18.6] |
| | <i>Non-Polar</i> | 7.6 [15.5] |
| | <i>Polar</i> | 4.4 [9.0] |
| | <i>Hydrogen Bonding</i> | 2.5 [5.1] |

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

Compatibility

Substrate Compatibility: The 9650 is compatible with most substrate materials found on printed circuit assemblies.

Solvent Miscibility: The 9650 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 9650 **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

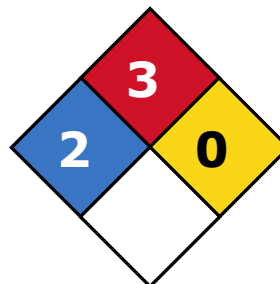
Environmental Impact: The 9650 has volatile organic content of 100% [805 g/L]. It is RoHS compliant.

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: | * 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)

Packaging and Supporting Products

| <i>Cat. No.</i> | <i>Packaging</i> | <i>Net Volume</i> | | <i>Net Weight</i> | |
|-----------------|------------------|-------------------|------------|-------------------|---------|
| 9650-1L | Can | 945 mL | 31.9 fl oz | 760 g | 1.67 lb |
| 9650-4L | Can | 3.78 L | 1 gal | 3.04 kg | 6.70 lb |

Contact MG Chemicals if custom packaging or sizes are required

a) Pack of five bottles



ISO 9001 Registered Quality System.
Burlington, Ontario, Canada QMI File # 004008

Methyl Ethyl Ketone (MEK) 9650 Technical Data Sheet

9650

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.

Disclaimer

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