

Safety Data Sheet

Product: Megger MJ159 and MJ170

Date of issue: 22 July 2019

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1. Identification

Megger MJ159 and MJ170 (Megger Hand-Cranked Insulation Testers)

Manufactured by: Megger Instruments Limited, Archcliffe Road, Dover, Kent CT17 9EN. England

Telephone: +44 (0) 1304 502 100

A manually turned generator provides electrical power to operate the instrument. There is no battery or other components for storing electrical energy.

2. Chemical and Material Hazard

When used in accordance with the manufacturer's instructions there is no material hazard in handling or operating the instrument.

Hazards:

H242: Heating may cause fire.

3. Composition

Instrument exterior:

| Common name | CAS number | EC number | |
|---------------|------------|-----------|--|
| ABS | 9003-56-9 | 920-401-2 | |
| Polycarbonate | 25037-45-0 | 920-874-5 | |
| Nylon 6 | 25038-54-4 | 928-264-0 | |
| Acetyl (POM) | 24969-26-4 | 607-470-1 | |
| Polypropylene | 9010-79-1 | 925-154-4 | |
| Silicone | 7440-21-3 | 231-130-8 | |

Interior electrical circuits:

| Common name | CAS number | EC number | |
|---------------------------------|------------|-----------|--|
| Copper | 7440-50-8 | 231-159-6 | |
| Continuous Filament Glass Fibre | 65997-17-3 | 266-046-0 | |
| Iron | 7439-89-6 | 215-168-2 | |
| Nickel | 7440-02-2 | 231-111-4 | |
| Epoxy resin | --- | --- | |

The glass fibre is bonded with epoxy resin and will not release powder or fibre fragments unless crushed or drilled.

Internal components comprise various other materials including (but not limited to) tin, aluminium foil, iron loaded ceramic, zinc-plated steel, stainless-steel, brass, gold, and silver in small quantities.

4. First-Aid Measures

Electric shock.

Operators must read and follow the manufacturer's safety warnings provided with the instrument and should be trained for first aid treatment of electric shock. Untrained staff must not use the equipment.

The instrument generates a high voltage (up to AC 1,000 V) at a low current below the threshold deemed hazardous-live and will energise conductive parts connected to its measurement terminals while the generator is cranked.

A capacitive circuit attached to the measurement terminals will retain the electrical charge when cranking has stopped until it is discharged. Capacitors greater than 45 nF may be charged with sufficient energy to become hazardous live.

A damaged instrument might not safely discharge a charged circuit and must not be used.

Laceration or abrasions

Treat laceration or abrasion from damaged parts using standard first-aid procedures:

Clean skin surrounding the wound, making sure that splinters are removed, and cover with a clean dressing.

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5. Fire-Fighting Measures

The instrument is made of fire retardant material, but will burn if a source of ignition has been applied for an extended time.

Suitable extinguishing media for the instrument:

CO₂, dry chemical or sand.

Cold water spray may be used if there is no electrical hazard.

Precautions for firefighters: Use self-contained breathing apparatus, protective clothing, and eye and face protection.

6. Accidental Release Measures

There are no fluids or gases within the instrument to leak in case of fault.

7. Handling and Storage

No special precautions need be taken when handling an undamaged instrument.

Wear gloves to protect from abrasion or sharp edges when handling a severely damaged instrument

8. Exposure Control and Personal Protection

There are no known harmful effects from exposure to the materials comprising this instrument.

9. Physical and Chemical Properties

Appearance: solid in various colours.

10. Stability and Reactivity

All materials are stable. No decomposition will occur if the instrument is stored, used and ultimately disposed of as directed.

11. Toxicological Information

No damage to health is expected from normal use of this product by trained personnel according to the manufacturer's instructions.

12. Ecological Information

There are no data on aquatic toxicity, bioaccumulation or other adverse effects from the materials used. See section 13 on safe procedures for the disposal of damaged parts.

Ecological damage is not expected in normal use.

13. Disposal Guidance

Do NOT dispose of damaged or undamaged products to landfill, to sewage systems or in fire.

End of life: the instrument must be recycled as waste electrical equipment according to local regulations. Consult the user instructions from the manufacturer.

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14. Transport Information

The product does not fall into a UN regulated class of hazardous goods for transport.

Land, Air, Maritime

The instrument may be safely transported by land vehicles, aircraft or ship.

If a damaged instrument is packaged for transport, make sure that all broken parts are secure and that the carton cannot be damaged by sharp edges.

15. Regulatory Information

The product meets the regulatory requirements for safety in the region to which it is shipped by the manufacturer. Consult the manufacturer for conformity declarations and certification.

16. Other Information

The data on the material composition, handling and transport were taken from the latest editions of the respective manufacturers' datasheets.

This safety datasheet provides information for use in the event of damage to the product. For undamaged products, this safety datasheet is only a general guide. Consult the manufacturer's instructions for use for full safety information when handling and using the product in normal conditions.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally contractual relationship.