

Dear Valued Customer,

Unlike some Galileo manufacturers, which use trichloroethane (a dry-cleaning liquid, which is very flammable) to fill the cylinder of the Galileo's, we use an oil/hydrocarbon emulsion that belongs to a neutral solvent group, like a thin mineral oil. The flash point is 100° Celsius, 212° Fahrenheit. It is nearly non-corrosive on metal, difficult to oxidize, and harmless to the human body (unless digested).

We also have tested the liquid on fabric and carpeting. After blotting up the spilt liquid and waiting 20 minutes for the balance of the liquid to evaporate, the only evidence left of the spill was a very slight oily feel to the fabric and carpet.

Following is an MSDS (material data safety sheet) for your reference.

Please feel free to contact me if you have any questions.

Sincerely,

Mary Hurley, NSM
River City Clocks
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MSDS for liquid in Galileo thermometers

Material Data Safety Sheet

1.) Identification of the preparation:

Intended use: Thermometer liquid

Chemical composition: Saturated Aliphatic Hydrocarbon C14-C16

Boiling Point: 240°C to 265°C

Specific Gravity: 0.7648g/cm³ at 20°C

Flash Point: 100°C

Chemical Properties: Nearly non-corrosive against metal, difficult to oxidize, belongs to neutral solvents, harmless to human body.

Appearance: Colorless, transparent oil liquid.

2.) Hazards identification of the preparation:

Harmful; may cause lung damage if swallowed.

3.) First Aid Measures:

Inhalation: Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration.

Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

Ingestion: If swallowed obtain immediate medical attention. Keep at rest. Do not force vomit, rinse mouth and drink plenty of water.

4.) Fire-fighting measures:

Extinguishing Media: Recommended alcohol resistant foam, CO², powders.

Water spray not to be used: water jet.

5.) Accidental release measures:

Recommendations for the protection of individuals: Ventilate the area. Avoid breathing vapors.

Disposal Measures: Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Do not allow to enter drains and/or watercourses. Clean preferably with a detergent; avoid use of solvents.