

SDS No. 022	Version 5.0	Revised Date 20/01/2023
Safety Data Sheet		

1. Identification of the substance/mixture and of the company/undertaking:

Product identifier	Part Number
CO Cell	No.12419
CO Cell	No. 12417
SO2 Cell	No.13364
Compact NO2 Sensor	No.13477
Sensor, Compact No	No.13622
H2S Sensor	No.59318
Compact Hydrogen Cell	No.59583
Compact Hydrogen Cyanide	No.59584
Compact Ozone Cell	No.59586
Compact Hydrogen Chloride	No.59587
Compact Ethylene Oxide	No.59589
CO/H2S Dual Cell	No.64067
CO Sensor	No.65127
H2S Cell	No.65128
SO2 Cell	No.65377
NO2 Cell	No.65378
Nitric Oxide Sensor 4Nt	No.65385
CO/H2S Dual Toxic Cell	No.66067
H2S (H) Sensor 2112B2023	No.66285
CO Sensor	No.65127
H2S Cell	No.65128
CO Sensor	No.67176
Chlorine Cell	No.59585
Compact Ammonia Cell	No.59588
Cl2 Cell - Sensoric	No.65371
NO3 Cell Sensoric 100Se	No.65388
Hydrogen Chloride Sensor	No.66342
Ozone Sensor Sensoric	No.66344
CO2 Sensor	No.66319
VOC Sensor	No.66579 & No.66588
PID-AH Sensor	No.66559
Relevant identified uses of the substance or mixture and uses advised against:	Electrochemical sensors for gas detection
Details of the supplier of the safety data sheet, company identification:	Gas Measurement Instruments Ltd Inchinnan Business Park Renfrew PA4 9RA Contact No: 0141 812 3211

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SDS No. 022	Version 5.0	Revised Date 20/01/2023
Safety Data Sheet		

	Email address: gmi_sales@teledyne.com
Emergency contact details:	Opening hrs. 9:00 a.m. -5:00 p.m. Contact No: 0141 812 3211

2. Composition/information on ingredients

Substance/Preparation	Preparation
EEC Nr. (from EINECS)	Not applicable for preparations.
Components/Impurities	Contains Sulphuric Acid (CAS 007664-93-9, Classification C: R35, EINECS 231-639-5)

3. Hazards Identification:

Hazards Identification	<p>The electrolyte inside the sensors constitutes the main potential hazard. This may become exposed should the housing be damaged or tampered with.</p> <p>Inhalation of electrolyte: Inhalation is not an expected hazard unless heated to high temperatures. Mist or vapour inhalation can cause irritation to the nose, throat, and upper respiratory tract.</p> <p>Ingestion of electrolyte: Corrosive. May cause sore throat, abdominal pain, nausea, and severe burns of the mouth, throat, and stomach.</p> <p>Skin or eye contact of electrolyte: Corrosive. May cause redness, pain, blurred vision and eye burns.</p> <p>Aggravation of pre-existing conditions: Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be more susceptible to the effects of the substance.</p>
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4. First Aid Measures :

Skin Contact:	Electrolyte and electrodes: Immediately flush the skin thoroughly with water for at least 15 minutes. Remove contaminated clothing and wash before re-use. Obtain medical advice if continued irritation.
Ingestion:	<p>Electrolyte: If swallowed DO NOT INDUCE VOMITING. Wash out mouth thoroughly with water and give plenty of water to drink.</p> <p>Obtain medical advice.</p> <p>Electrodes: If swallowed and individual is conscious, induce vomiting. Obtain medical attention.</p>
Inhalation:	Electrolyte: Remove to fresh air. Rest and keep warm. Obtain medical advice if necessary.
Eye contact:	Electrolyte and electrodes: Irrigate thoroughly with water for at least 15 minutes. Obtain medical advice.

SDS No. 022	Version 5.0	Revised Date 20/01/2023
Safety Data Sheet		

5. Fire- fighting measures:

Specific Hazards.	Not considered to be a fire or explosion hazard
Hazardous combustion products.	Toxic fumes may be evolved.
Suitable extinguishing media	Use any means suitable for extinguishing surrounding fire
Specific methods	N/A
Special protective equipment for fire fighters	N/A

6. Accidental release measures:

Personal precautions, protective equipment and emergency procedures:	Should any sensor be so severely damaged or tampered with that the leakage of the contents occurs then the following procedures should be adopted: Avoid skin contact with any lead, liquid or internal component through the use of protective gloves. Disconnect sensor if it is attached to any equipment Observe first aid measures in case of eye contact, inhalation, skin contact or ingestion of electrolyte.
Environmental precautions:	NA
Methods and material for containment and cleaning up	Use copious amounts of clean water to wash away any spilt electrolyte, particularly important in equipment because of the corrosive nature of the electrolyte.

7. Handling and Storage:

Precautions for safe handling	Must not be exposed to temperatures outside the range specified on the data sheet. Should not be exposed to organic vapors, which may cause physical damage to the body of the sensor. Must not be stored in areas containing organic solvents or in flammable liquid stores
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8. Exposure controls / personal protection:

Personal protection	None in normal operation
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9. Physical and chemical properties:

Relative density, gas.	N/A
Solubility mg/l water	N/A
Appearance / Colour	Plastic sensor with 3 or 4 connections. Sensor is a sealed unit.
Odour	N/A

SDS No. 022	Version 5.0	Revised Date 20/01/2023
Safety Data Sheet		

10. Stability and reactivity:

Stability	N/A
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11. Toxicological information:

General - Potential Health Effects:	Electrolyte is corrosive to eyes, respiratory system, and skin.
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12. Ecological information:

General - Toxicity:	No ecological damage caused by this product.
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13. Disposal Considerations:

General - Waste treatment methods:	<p>Contains toxic compounds irrespective of physical condition.</p> <p>Should be disposed of according to local waste management requirements and environmental legislation.</p> <p>Should not be burnt since they may evolve toxic fumes.</p> <p>Contact your Waste Management Company to deal with any waste.</p>
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14. Transport information:

UN Nr.	2800
Other transport information	<p>Electrochemical sensors are classified under UN 2800 (batteries -Wet non-spillable) and conform to the special provisions, section 4.5 paragraph A67 of the dangerous goods regulations.</p> <p>As such electrochemical sensors are classed as non-dangerous and may be transported without special packing, labels etc. It is important, however, to check any local regulations</p>

In case of any doubt, contact GMI customer service representative at 0141 812 3211.

15. Regulatory information:

Number in Annex 1 of Dir. 67/548 / not applicable for preparations.
 EC Classification / Not classified as a dangerous substance.

16. Other Information

This product should only be used for the calibration of GMI instruments using the procedures laid out in the instrument manual.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.