

## 1. Identification of the Substance/Preparation and of the Company

MSDS Nr.	022	
Product Name	CO Cell	Pt. No.12419
	SO2 Cell	Pt. No.13364
	Compact NO2 Sensor	Pt. No.13477
	Sensor, Compact No	Pt. No.13622
	H2S Sensor	Pt. No.59318
	Compact Hydrogen Cell	Pt. No.59583
	Compact Hydrogen Cyanide	Pt. No.59584
	Compact Ozone Cell	Pt. No.59586
	Compact Hydrogen Chloride	Pt. No.59587
	Compact Ethylene Oxide	Pt. No.59589
	CO Sensor	Pt. No.65127
	H2S Cell	Pt. No.65128
	SO2 Cell	Pt. No.65377
	NO2 Cell	Pt. No.65378
	Nitric Oxide Sensor 4Nt	Pt. No.65385
	CO/H2S Dual Toxic Cell	Pt. No.66067
	H2S (H) Sensor 2112B2023	Pt. No.66285
	CO Sensor	Pt. No.65127
	H2S Cell	Pt. No.65128
	CO Sensor	Pt. No.67176
	Chlorine Cell	Pt. No.59585
	Compact Ammonia Cell	Pt. No.59588
	Cl2 Cell - Sensoric	Pt. No.65371
	NO3 Cell Sensoric 100Se	Pt. No.65388
	Hydrogen Chloride Sensor	Pt. No.66342
	Ozone Sensor Sensoric	Pt. No.66344
Intended Use	Electrochemical sensors for gas detection	
Company	Gas Measurement Instruments Ltd Inchinnan Estate Renfrew PA4 9RG	
Emergency phone number	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 sensor constitutes the main potential hazard. This may become exposed should the housing be damaged or tampered with.</p> <p><i>Inhalation of electrolyte:</i> 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><i>Ingestion of electrolyte:</i> Corrosive. May cause sore throat, abdominal pain, nausea, and severe burns of the mouth, throat, and stomach.</p> <p><i>Skin or eye contact of electrolyte:</i> Corrosive. May cause redness,</p>
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pain, blurred vision and eye burns.

*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.

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#### 4 First Aid Measures

Eyes	<i>Electrolyte and electrodes:</i> Irrigate thoroughly with water for at least 15 minutes. Obtain medical advice.
Skin	<i>Electrolyte and electrodes:</i> 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
Inhalation	<i>Electrolyte:</i> Remove to fresh air. Rest and keep warm. Obtain medical advice if necessary.
Ingestion	<i>Electrolyte:</i> If swallowed DO NOT INDUCE VOMITING. Wash out mouth thoroughly with water and give plenty of water to drink. Obtain medical advice.  <i>Electrodes:</i> If swallowed and individual is conscious, induce vomiting. Obtain medical attention.

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#### 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

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#### 6. Accidental Release Measures.

Personal precautions	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	N/A
Clean up methods	Use copious amounts of clean water to wash away any spilt electrolyte, particularly important in equipment because of the corrosive nature of the electrolyte.

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**7. Handling and Storage**

Handling and storage	Must not be exposed to temperatures outside the range specified on the data sheet. Should not be exposed to organic vapours, 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

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**10. Stability and Reactivity**

Stability and reactivity	N/A
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**11. Toxicological Information**

General	Electrolyte is corrosive to eyes, respiratory system and skin.
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**12. Ecological Information**

General	No ecological damage caused by this product.
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**13. Disposal Considerations.**

General	Contains toxic compounds irrespective of physical condition. Should be disposed of according to local waste management requirements and environmental legislation.  Should not be burnt since they may evolve toxic fumes.
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**14. Transport Information**

UN Nr.	2800
Other transport information	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. 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

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**15. Regulatory Information**

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

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**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.

**17. Revision History**

Version 1.0	1 January 2001	C.G.Tandy
Version 2.0	31 July 2002	C.G.Tandy
Version 3.0	06 August 2009	C.G.Tandy
Version 4.0	14 October 2010	C.G.Tandy