

Product Safety Datasheet

These products are classified as Articles under REACH and are not subject to the requirements for Information in the Supply Chain (Safety Data Sheets and Labels). While sensors may release hazardous substances if damaged, this is not an intended release as defined under REACH. Sensors are not classified as hazardous under the CLP.

1. Product name/chemical identification

Electrochemical sensor to detect toxic gases;

SureCell Cl₂ (O₃)

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2. Composition / information on ingredients

Electrolyte containing a concentrated solution of lithium salts, proprietary catalyst electrodes, enclosed in a plastic based housing with attached metal connections.

3. Hazards Identification

“City Technology’s electrochemical gas sensors in normal usage represent no chemical hazard in the sense of the “Control of Substances Hazardous to Health (COSHH) Regulations” and the Health and Safety at Work Act 1974.”

The electrolyte inside the sensor constitutes the main potential hazard. This may leak out should the housing be damaged or tampered with.

3.1. 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.

3.2. Ingestion of electrolyte:

Harmful if swallowed.

3.3. Skin or eye contact of electrolyte:

May be harmful if absorbed through skin. Causes skin irritation.

Product Safety Datasheet

4. First-Aid Measures

In case of leakage and:

4.1. Eye contact with electrolyte:

Irrigate thoroughly with water for at least 15 minutes. Obtain medical advice.

4.2. Inhalation of electrolyte:

Remove to fresh air. Rest and keep warm. Obtain medical advice if applicable.

4.3. Skin contact with electrolyte:

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.

4.4. Ingestion of electrolyte:

If swallowed DO NOT INDUCE VOMITING. Wash out mouth thoroughly with water and give plenty of water to drink. Obtain medical advice.

5. Fire Fighting Measures

5.1. Fire:

Not considered to be a fire hazard.

5.2. Explosion:

Not considered to be an explosion hazard.

5.3. Fire extinguishing media:

Use any means suitable for extinguishing surrounding fire.

6. Accidental release measures

6.1. Damage

Should any electrochemical cell 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 liquid or internal component through the use of protective gloves.
- Disconnect electrochemical cell if it is attached to any equipment.
- Use copious amounts of clean water to wash away any spilt electrolyte, particularly important in equipment because of the corrosive nature of the electrolyte.
- Observe first aid measures in case of eye contact, inhalation, skin contact or ingestion of electrolyte.

7. Handling and Storage

Must not be exposed to temperatures outside the range specified on the specification 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.

8. Exposure controls / personal protection

None in normal operation

Product Safety Datasheet

9. Physical and chemical properties

Sensor is a sealed unit

10. Stability and reactivity

N/A

11. Toxicological information

Electrolyte is severely irritating and sensitising to eyes, respiratory system and skin.

12. Ecological Information

The product components are not classified as environmentally hazardous.

13. Disposal Considerations

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.

14. Transport Regulations

City Technology's electrochemical sensors are classified as "batteries wet non-spillable" (UN2800). They are transported as per IATA PI 872 and 49CFR 173.159a, and need no special packaging, labels etc. as they are not restricted as per IATA Special Provision A67.

15. Regulatory information

Hazard statements:

H302 : Harmful if swallowed.

H315 : Causes skin irritation.

H319 : Causes serious eye irritation.