

PSDS

SENSORIC HYDROUS ELECTROLYTE

Product Safety Datasheet

1. Product Name / Chemical Identification

Electrochemical sensors for detection of toxic gas.

Cl₂ 3E 10	Cl₂ 3E 50	HF 3E 10 S	HF 3E 10 SE	NH₃ 3E 100 SE
NH₃ 3E 1000 SE	NH₃ 3E 500 SE	NH₃ 3E 5000 SE	NO₂ 3E 50	

Manufacturer: Honeywell, Walton Rd, Portsmouth, Hampshire, England, PO6 1SZ

Telephone: +44 23 9228 8100

Fax: +44 23 9238 6611

Website: <https://sps.honeywell.com/us/en/products/sensing-and-iot/sensors/gas-sensors>

2. Composition / Information on Ingredients

ABS plastic housings, proprietary noble metal catalyst electrodes, halogen free organic solvents, acrylamide (Cl₂ and NO₂ sensors), inorganic non toxic salts.

3. Hazards Identification

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. Harmful if inhaled.

3.2. Ingestion of electrolyte:

Harmful if swallowed. Ingestion of Cl₂ and NO₂ electrolyte may cause nervous system disturbances.

3.3. Skin or eye contact of electrolyte:

May cause skin irritation.

3.4. Aggravation of pre-existing conditions:

Persons with pre-existing skin disorders, eye problems or central or peripheral nervous system conditions may be more susceptible to the effects of this substance.

3.5. Chronic health hazards:

Prolonged or repeated exposure to Cl₂ and NO₂ electrolyte may cause reproductive disorders and/or cancer. Risk of cancer depends on level and duration of exposure.

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 soap and copious amounts of 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 Sensoric gas 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 liquid or internal component through the use of protective gloves.
- Disconnect Sensoric gas sensor 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 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.

8. Exposure Controls / Personal Protection

None in normal operation

9. Physical and Chemical Properties

- Colour coded sensors in plastic housing with connection pins or flying leads
- Sensor is a sealed unit

10. Stability and Reactivity

N/A

11. Toxicological Information

To the best manufacturer's knowledge, the toxicological properties have not been thoroughly investigated.

12. Ecological Information

Harmful to aquatic life.

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

Sensoric gas 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.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statement

P273

Avoid release to the environment.

The following hazard and precautionary statements are exclusive for Cl₂ and NO₂ electrolyte.

Hazard Statements

H302 + H332

Harmful if swallowed or if inhaled

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H340

May cause genetic defects.

H350

May cause cancer.

H361f

Suspected of damaging fertility.

H372

Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

P201

Obtain special instructions before use.

P280

Wear protective gloves.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.

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USA/Canada	+302 613 4491
Latin America	+1 305 805 8188
Europe	+44 1344 238258
Japan	+81 (0) 3-6730-7152
Singapore	+65 6355 2828
Greater China	+86 4006396841

Honeywell

Advanced Sensing Technologies

830 East Arapaho Road
Richardson, TX 75081
sps.honeywell.com/ast