Introduction	The document below provides product safety information for DD Scientific ammonia sensors
Products Covered	GS+4NH3-100, GS+4NH3-300, GS+NH3-1000, GS+7NH3-100, GS+7NH3-1000

Manufacturer: DD Scientific Ltd.,
Unit 1, Castle Trading Estate,
Fareham, Hants,
PO16 9SF, UK

1. Composition / information on ingredients

Electrolyte containing metal chloride salts, distilled water, proprietary catalyst materials, PTFE, plastic housing and metal pins/connections.

2. Hazards Identified

The electrolyte inside the sensor constitutes the largest potential hazard and may be toxic if ingested. If the sensor is damaged or tampered with, the electrolyte may leak from the sensor housing.

2.1 Inhalation of electrolyte

Inhalation is not an expected hazard unless a fractured sensor is exposed to high temperatures. Vapour or mist inhalation can cause irritation to the nose, throat and respiratory tract and may be toxic with repeated or high level exposure.

2.2 Ingestion of electrolyte

A constituent of the electrolyte is toxic and may cause harm if repeatedly ingested.

2.3 Skin or eye contact with electrolyte

A constituent of the electrolyte is toxic and may cause harm with repeated contact.

2.4 Aggravation of pre-existing conditions

None identified.

3. First-Aid Measures

In case of leakage;

3.1 Eye contact with electrolyte;

Irrigate thoroughly with clean water for at least 15 minutes. Remove contact lenses. Seek medical advice

3.2 Inhalation of electrolyte;

Remove to fresh air, rest and keep warm. Seek medical advice.

3.3 Skin contact with electrolyte;
Immediately rinse the affected area thoroughly with clean water for at least 15 minutes. Remove contaminated clothing and wash before use again. Seek medical advice if condition continues.
3.4 Ingestion of electrolyte;
If swallowed, do not induce vomiting. Wash mouth out thoroughly with clean water and give clean water to drink. Seek medical advice.

4. Fire fighting measures
The sensors are not considered to be a fire or explosion hazard. Any suitable means of extinguishing surrounding fire should be used.

5. Accidental damage
Should any DD Scientific ammonia sensor be damaged or tampered with to the point that electrolyte leakage occurs, then please follow the following procedure;

5.1 Avoid skin contact with any liquid or internal component of the sensor by the means of protective gloves
5.2 Disconnect the sensor if attached to any instrumentation, electronics or equipment
5.3 Use copious amounts of clean water to wash away any electrolyte spill.
5.4 Observe first aid measure as described in section 3 above.

6. Handling and Storage
The sensor must not be exposed to temperatures or environmental conditions beyond those specified in the product datasheet. The sensor should not be exposed to solvents or organic vapours which might damage the mechanical housing. The sensors should not be stored near flammable liquid stores.

7. Exposure controls / PPE
In normal operation, none are required.

8. Physical and chemical properties
The sensor is a sealed unit.

9. Stability and reactivity
Not applicable, the sensor is a sealed unit.

10. Toxicological information
The internal electrolyte is toxic in larger quantities than those contained within the sensor.

11. Ecological information

The electrolyte may have a harmful effect on aquatic organisms.. It may have a harmful affect on fish and algae.

12. Disposal considerations

The sensor contains toxic compounds irrespective of physical condition. It must be disposed of according to local waste management requirements and the prevailing environmental legislation. The sensor should not be burnt.

13. Transport regulations

DD Scientific's NH3 sensors are classified as UN2800 as "batteries, wet, non-spillable". Per IATA PI 872 and 49CFR 173 159a, they require no special secondary packaging and labels as they are not restricted per IATA Special Provision A67.

14. Regulatory information

Not applicable.

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