Airgas. an Air Liquide company

Ammonia Detectio AEA20244

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November 2024

Who is Airgas Specialty Products?

An expert in industrial ammonia distribution since 1891!



Ammonia Supply

- 27 Locations across US
- Anhydrous and Aqua Supply
- Dedicated Fleet
- Dedicated and Ammonia Specialized drivers
- Industry Leading Safety features



Equipment Solutions

- Tank Lease
- Delivery options
- Cylinder to bulk
- Telemetry
- Pumps & Vaporizers
- RMP/PSM support



Field Service

- Liquid and vapor removal
- Scheduled (PM) and emergency service calls
- Interim liquid or vapor product supply
- Interim NH3 or NH4OH storage solutions



Training & Education

- On-site and remote training on ammonia and systems
- Safety compliance and education



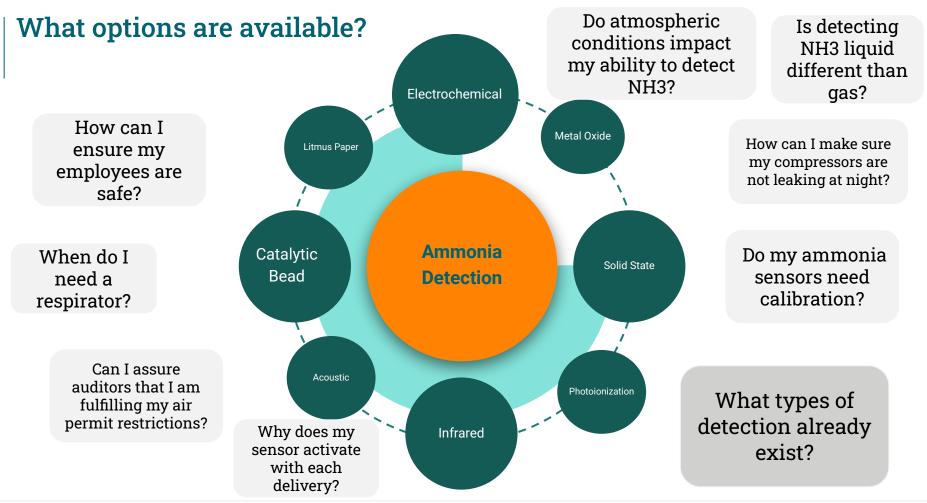
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Ammonia Detection Task Force - Why?

Who started this project	The project
Initial ask - Joint Industry Working Group on Safe Decarbonisation (JIWG/SDEC) led by the International Association of Classification Societies (IACS), focused on safety risk analysis and regulatory gap analysis in efforts to align the industry on using ammonia as a maritime fuel.	IACS exploring the topics of accuracy, reliability, and standards of ammonia sensors. AEA working to develop an evidence-based document to support further discussions within IACS (and the IMO) & other forums, by providing the best available information on the topic of ammonia gas detection.

Who else needs this?	Why?
Ammonia Producers	 Personal Protection Emergency Response Remote Site Monitoring Offsite consequence "Fencing" HazCom Risk Mitigation - active vs passive
Ammonia Storage	
Ammonia Transport	
Ammonia Users	
Entire Ammonia Supply Chain	







Ammonia Detection - Expectations

Ammonia Gas Detection Task Force - Today

- Initiate the transfer of the current expertise in ammonia gas detection to new markets & applications
- Industry will rise together by ensuring best practices are followed and passed on
- Present a thorough understanding of the existing techs, practices and standards to a new audience

Ammonia Gas Detection Task Force - Next Steps

- Use the task force discussion and AEA annual meeting to outline gaps and assign research
 - your participation today is essential!
- Develop white paper basics
- Deliver white paper to AEA Members spring 2025

Ammonia Gas Detection Task Force - What are we not...

- Consumer reports for gas detectors
- Site specific ammonia gas detection guidance
- Legal or compliance consultants

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