CBHS
CERTIFIED SAFETY.

JAN 2025

# CBHS SAFETY BULLETIN:
# AMMONIA RISKS AND SAFETY

## OVERVIEW

**ANHYDROUS AMMONIA IS ONE OF THE MOST EFFECTIVE REFRIGERANTS USED IN FOOD INDUSTRIES, HOWEVER, IT IS ALSO CATEGORIZED AS ONE OF THE MOST DANGEROUS TOXIC INDUSTRIAL CHEMICALS.**

## RISKS ASSOCIATED WITH AMMONIA

**HEALTH RISKS:**

- RESPIRATORY PROBLEMS, SKIN BURNS, AND EYE DAMAGE.
- CHRONIC EXPOSURE MAY CAUSE ASTHMA AND OTHER RESPIRATORY CONDITIONS.

**INDUSTRIAL ACCIDENTS:**

- RISKS OF FIRES, EXPLOSIONS, AND TOXIC EXPOSURE.
- FLAMMABLE AT CONCENTRATIONS OF 15 TO 28% BY VOLUME IN AIR

# 300 PPM

**CAN BE FATAL; CAUSES FLUID BUILD-UP IN THE LUNGS AND SEVERE SHORTNESS OF BREATH.**

# 15%

**FLAMMABLE AT CONCENT-RATIONS OF 15 TO 28% BY VOLUME IN AIR**

**GLOBALLY, AMMONIA EXPOSURE IN INDUSTRIAL SETTINGS RESULTS IN TENS OF THOUSANDS OF INJURIES AND HUNDREDS OF FATALITIES ANNUALLY, WITH SIGNIFICANT ECONOMIC IMPACTS INCLUDING BILLIONS OF DOLLARS IN DIRECT AND INDIRECT COSTS PER INCIDENT.**

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## SAFETY MEASURES FOR HANDLING AMMONIA

### DETECT: USING AMMONIA DETECTOR:

- FIXED DETECTORS: INSTALLED IN AREAS WHERE AMMONIA IS STORED OR USED.
- PORTABLE DETECTORS: USED BY PERSONNEL FOR SPOT-CHECKING AMMONIA LEVELS

### PROTECT: PERSONAL PROTECTIVE EQUIPMENT

PORTWEST

**AMMONIA LEVEL ABOVE 300 PPM**

**AMMONIA LEVEL 300 PPM TO 50 PPM**

**AMMONIA LEVEL BELOW 50 PPM**

**CBHS, A TRUSTED DISTRIBUTOR FOR PORTWEST AND GAZDETECT, PROVIDES COMPLETE DETECTION AND PERSONAL PROTECTIVE EQUIPMENT SOLUTIONS TO SAFEGUARD AGAINST AMMONIA AND OTHER HAZARDOUS CHEMICALS.**

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## SAFETY MEASURES FOR HANDLING AMMONIA

**RESPOND: FIRST AID AND LEAK CONTROL**

1. **EVACUATE:**
   - ALERT: IMMEDIATELY ALERT ALL PERSONNEL OF THE LEAK.
   - EVACUATE: EVACUATE THE AREA FOLLOWING THE DESIGNATED EMERGENCY EVACUATION PLAN.
2. **CONTAIN:**
   - ISOLATE AREA: ISOLATE THE LEAK AREA IF SAFE TO DO SO.
   - VENTILATE: INCREASE VENTILATION TO DISPERSE THE AMMONIA GAS.
   - STOP LEAK: IF SAFE, STOP THE LEAK USING APPROPRIATE TOOLS AND PPE.
   - CONTAIN SPILL: USE ABSORBENT MATERIALS OR NEUTRALIZING AGENTS TO CONTAIN THE SPILL.
3. **PROVIDE FIRST AID**

**FROM DETECTION AND PPE TO EVACUATION PROCEDURES, CHEMICAL HANDLING, AND FIRST AID TRAINING, CBHS OFFERS COMPLETE SOLUTIONS FOR SAFELY MANAGING HAZARDOUS CHEMICALS.**
**FOR MORE INFORMATION. VISIT OUR WEBSITE (CBHSGROUP.COM) OR CONTACT US AT 00961-3190055 OR INFO@CBHSGROUP.COM**