

# PRODUCT PROFILE

## AMMONIUM HYDROXIDE

### AQUA AMMONIA

#### Food Chemical Codex, ACS, and NSF Standards Specification

#### STANDARDS

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Hill Brothers Chemical Company produces ammonium hydroxide at San Jose, CA and City of Industry, CA in compliance with current Good Manufacturing Practices (cGMP) and meets or exceeds, by typical periodic analysis, the current Food Chemical Codex (FCC) standards as listed in the FCC monograph.

In accordance with the FDA Title 21 CFR 184.1139 ammonium hydroxide is listed as Generally Recognized as Safe (GRAS) with no limitations other than cGMP for the following uses:

Leavening agent	21 CFR 170.3 (o) (17)
pH Control agent	21 CFR 170.3 (o) (23)
Surface-finishing agent	21 CFR 170.3 (o) (30)
Boiler water additive	21 CFR 170.310
Feed additive	21 CFR 582.1139

Hill Brothers' ammonium hydroxide also meets the current specifications for reagent grade ammonium hydroxide, established by the American Chemical Society (ACS), and has been tested and certified by NSF International for drinking water treatment.

#### QUALITY CONTROL

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Each manufactured batch is quality control tested to meet basic physical properties including assay, specific gravity, temperature, and turbidity. Hill Brothers' will, by way of a third party laboratory, periodically commission a chemical analysis of randomly manufactured ammonium hydroxide at each facility to assure compliance to so stated standards and specifications.

#### HAZARDOUS MATERIAL WARNING

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Ammonium Hydroxide is classified as a hazardous material. Hill Brothers, as a basic manufacturer of ammonium hydroxide, attests that the product meets all pertinent specifications, but accepts no responsibility for its end use. Ingestion of this or any hazardous material may result in serious injury or fatality. Although this product meets FDA Title 21 CFR 184.1139 specifications, this in no way mitigates the hazards inherent in this product. Appropriate precautions must be observed whenever using this product. Please refer to Hill Brothers' MSDS for more detailed safe handling and hazardous information.

Prepared by: Tony Garcia, Director of R&D for Hill Brothers Chemical Co.

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The information on this Product Profile is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose. For latest product specifications, contact our nearest sales office.

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Phoenix, AZ • Tucson, AZ • Pacific Northwest • International Sales



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