

Array Clear Ammonia

SDS Number: 100

Revision Date: 5/28/2015

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PRODUCT AND COMPANY IDENTIFICATION

Product Name: Array Clear Ammonia
Revision Date: 5/28/2015
Version: 1
SDS Number: 100
Common Name: Ammonium Hydroxide
CAS Number: 1336-21-6
Product Code: 93901-27078
Synonyms: Ammonia, Aqua Ammonia, Aqueous Ammonia, Ammonia Water
Internal ID: 90110260

Distributed By: Gordon Food Service

Street Address: 1300 Gezon Parkway SW

City, State, Zip: Wyoming, MI 49509 USA

EMERGENCY TELEPHONE NUMBERS

Medical Transportation: 1-866-359-5662 USA

Transportation: 1-800-451-5662* USA
* For spill, leak, fire or transport accident emergencies

Product Information: 1-800-968-6474 USA
(8 A.M. to 5 P.M. EST Monday to Friday)

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HAZARDS IDENTIFICATION

GHS Signal Word:
WARNING

GHS Hazard Pictograms:



GHS Classifications:
Health, Skin corrosion/irritation, 3
Health, Serious Eye Damage/Eye Irritation, 2 B
Health, Specific target organ toxicity - Single exposure, 3
Environmental, Hazards to the aquatic environment - Acute, 3

GHS Phrases:
H316 - Causes mild skin irritation
H320 - Causes eye irritation
H335 - May cause respiratory irritation
H402 - Harmful to aquatic life

GHS Precautionary Statements:
P264 - Wash exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P281 - Use personal protective equipment as required.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P311 - Call a POISON CENTER or doctor/physician.

P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing. Seek immediate medical attention.

P309+311 - IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician.

P341 - If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P370+378 - In case of fire: Use dry chemical, carbon dioxide, foam, or water spray for extinction.

P401 - Store upright in a cool, dry place.

P501 - Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
1336-21-6	0.50-2.50%	Ammonium hydroxide
7732-18-5	97.50-99.50%	Water

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FIRST AID MEASURES

- Inhalation:** Mild inhalation of ammonia vapors may cause irritation of the nose and throat. Coughing and sneezing may present. Exposure to more excessive ammonia vapors may cause respiratory irritation, olfactory fatigue, labored breathing, and possible pulmonary edema. For more severe exposure, seek medical attention.
- Skin Contact:** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. If irritation develops, seek medical attention. Wash clothes before reuse.
- Eye Contact:** Rinse immediately with plenty of cool water. Keep eye(s) wide open while rinsing. Remove contact lenses if present. Avoid rubbing the affected area. Speed is essential to minimize injury. Seek immediate medical attention.
- Ingestion:** Do NOT induce vomiting. Rinse mouth thoroughly with water. If able, have person sip a glassful of water. Follow with a citrus juice if available. Call a physician or poison control center.

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FIRE FIGHTING MEASURES

- Flammability:** Liquid state not flammable
- Flash Point:** No information available
- Flash Point Method:** Not applicable
- Burning Rate:** No information available
- Autoignition Temp:** No information available

In the event of a fire, wear full protective clothing and MSHA/NIOSH self-contained breathing apparatus with a full facepiece operated in the pressure-demand or other positive pressure mode.

Ammonia gas will be liberated at all temperatures, which can be explosive under confined space conditions. Contact between this product and concentrated mineral acids will cause instant boiling and possible explosion.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment; Water spray may be used to keep fire exposed containers cool. Water spray or fog should be used to remove generated ammonia gas from the atmosphere. Fire extinguishing agents include dry chemical, carbon dioxide, foam, or water spray.

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ACCIDENTAL RELEASE MEASURES

Use personal protective equipment as required/recommended. Evacuate public to a safe area. Stay upwind of spill. Avoid contact with skin, eyes, and clothing.

Prevent spills from entering sewers or waterways. Contain run-off using diking composed of a suitable material. Soak up liquid on inert absorbant and transfer to an approved container. Clean contaminated surface thoroughly.

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HANDLING AND STORAGE

Handling Precautions: Use personal protective equipment as required/recommended. Use only with adequate ventilation. Avoid contact with skin, eyes, and clothing. Use suitable respiratory equipment in case of inadequate ventilation.
Handle empty containers as if they were full due to presence of residual ammonia vapors. Do not mix with other household chemicals.

Storage Requirements: Store using properly labeled containers in a cool, dry, well ventilated area. Keep out of reach of children. Separate from incompatible materials and excessive heat.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation, especially in confined spaces. Provide local exhaust ventilation system to meet established exposure limits where ammonia vapors are likely to approach or exceed exposure limits.

Personal Protective Equip: Chemical splash goggles; Face shield; Neoprene gloves; NIOSH approved respirator; Apron;

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless	Odor:	Pungent, ammonia
Physical State:	Liquid	Solubility:	Completely soluble
Spec Grav./Density:	0.994 - 0.996	Freezing/Melting Pt.:	32 F (approx.)
Boiling Point:	212 F (approx.)	UFL/LFL:	25% / 16%
pH:	10.50 - 12.00		

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STABILITY AND REACTIVITY

Stability: The product is stable and non-reactive under normal conditions of use, pressure, storage and transport.

Conditions to Avoid: Contact with incompatible materials.

Materials to Avoid: Chlorine, hypochlorite, acids, alkalies, oxidizing materials, copper, aluminum, zinc, galvanized metals.

Hazardous Decomposition: Ammonia gas and oxides of nitrogen.

Hazardous Polymerization: Will not occur.



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TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral (LD 50): No information available.

Inhalation (LC 50): No information available.

Skin Irritation: Repeated, prolonged or occluded contact may cause various severities of skin irritation.

Eye Irritation: May cause eye irritation with severe pain, closure of eyelids, and possible corneal injury.

Sensitation: Ammonia vapors may cause upper respiratory irritation resulting in coughing and sneezing, olfactory fatigue, labored breathing, and pulmonary edema.

Chronic Toxicity: None known.

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ECOLOGICAL INFORMATION

Considered biodegradable

BOD/COD Value is not established

Ecotoxicity: This product is acutely toxic to aquatic life.

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DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Small amounts of unused product may be flushed safely to sanitary sewer with plenty of water. Contact the local water board before flushing large amounts.

If solidified, large amounts may be disposed of in a sanitary landfill.

Contact state or local authorities for additional restrictions.

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TRANSPORT INFORMATION

DOT: Not regulated. Classified as non-hazardous.

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REGULATORY INFORMATION

*Ammonium hydroxide (1336216 0.50-2.50%) CERCLA, CSWHS, MASS, NJEHS, PA, TSCA



Safety Data Sheet

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*Water (7732185 97.50-98.00%) TSCA

REGULATORY KEY DESCRIPTIONS

TSCA = Toxic Substances Control Act

MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
NRC = Nationally Recognized Carcinogens
OSHA WAC = OSHA workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TXAIR = TX Air Contaminants with Health Effects Screening Level

HAP = Hazardous Air Pollutants

CERCLA = Superfund clean up substance
CSWHS = Clean water Act Hazardous substances
NJEHS = NJ Extraordinarily Hazardous Substances

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OTHER INFORMATION

Author: James Austin Company

Publication Date: 11/25/2014

Revision Note: N/A

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