## **MATERIAL SAFETY DATA SHEET**



# Ammonium Hydroxide 10% v/v Aqueous Solution

#### SECTION 1 . Product and Company Idenfication

Product Name and Synonym: Ammonium Hydroxide 10% v/v Aqueous Solution

Product Code: 0445

Material Uses:

Manufacturer: Aqua Solutions, Inc

6913 Hwy 225

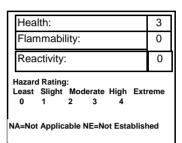
Deer Park, TX 77536

(281) 479-2569

Entry Date : 12/1/2014
Print Date: 12/1/2014

24 Hour Emergency Assistance : Chemtrec 800-424-9300

Canutec 613-996-6666



#### **SECTION 2 HAZARD IDENTIFICATION**

Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

## SECTION 3 MIXTURE COMPONENTS

SAI	RA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
	Ammoniu 30% w/w	m Hydroxide 28-	CAS# 1336-21- 6	10%	V/V	None established
	Water, De Type II	eionized ASTM	CAS# 7732-18- 5	Balance	V/V	None Established

## SECTION 4 FIRST AID MEASURES

Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

### SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Water spray, Carbon dioxide, dry

chemical, powder, foam.

Fire / Explosion Hazards:

Toxic vapors may accumulate

Ammonium Hydroxide 10% v/v Aqueous Solution

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing

to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste

container. Neutralize with a weak acid.

SECTION 7 HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place away from

incompatible materials. Wash thoroughly after handling.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator for ammonia

Ventilation

Local Exhaust

Mechanical 🗸

Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl

Eye Protection: Goggles and Face

Shield

Other Protective Equipment: Wear appropriate clothing to prevent

skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point: not available Percent Volatile by Volume: 100%

Boiling Point: not available Evaporation Rate Information not

available

Not applicable

Vapor Pressure: not available Evaporation Standard

Vapor Density: not available Auto Ignition Temp Not applicable

Solubility in Water: Soluble Lower Flamm. Limit in Air Not applicable

Upper Flamm, Limit in Air

Appearance /Odors: Clear

colorless liquid, strong characteristic

odor

Flash Point: Not applicable

Specific Gravity: ~1

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Avoid contact with incompatible materials and

high temperatures.

Materials to Avoid: Strong oxidizing agents, metals, acids.

Hazardous Decomposition

Products:

Toxic fumes of: Ammonia, nitric oxide

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

## Ammonium Hydroxide 10% v/v Aqueous Solution

SECTION 11	Toxicological Information	
SECTION 12	Ecological Information	
SECTION 13	Disposal Considerations	
SECTION 14	Transport Information	

DOT Classification:

Not regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15	Regulatory Information	
SECTION 16	Additional Information	

Conditions aggravated/target organs: Corrosive! Persons with pre-existing skin, eye or respiratory disorders will be more susceptible. Acute: Severe irritation or burns to skin, eyes, respiratory tract, mucous membranes and GI tract, skin ulcers, blindness, asphyxia. Chronic: Dermatitis, eye damage, lung damage.

Flammability

Health Reactivity

Revisions	NFPA	
	0.1	

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