

## Safety & Health Quick List

Chemical/Product Name:	Ammonia Solution
Synonym:	Aqua Ammonia

CAS No: 

7664-41-7
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Hazard Statements: Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause respiratory irritation.  
Very toxic to aquatic life.

NFPA Ratings:	4-Dangerous	3-Severe	2-Moderate	1-Slightly Hazardous
GHS Ratings:	1-Dangerous	2-Severe	3-Moderate	4-Slightly Hazardous

### Physical Properties

NFPA Rating: Health	3	Auto Ignition Temperature	1203.8 F
NFPA Rating: Flammibility	1	Solubility in Water	Completely Soluble
NFPA Rating: Reactivity	0	Specific Gravity	~0.9
GHS Classification: Corrosive	1	Flash Point	N/A
Fire Extinguisher Type	Appropriate for surrounding areas	Vapor Pressure	N/A
Freeze Point	-106.6	Max Concentration	10-30%
LEL%	N/A	Boiling Point	N/A
UEL%	N/A	RQ	100 lbs
Vapor Density	N/A		

### Exposure Guidelines

PEL/TLV	25 ppm	Corrosive	1
STEL	35 ppm	Irritant	1
Ceiling	N/A	IDLH	300 ppm
SkinNotation (S)	N/A	Odor Threshold	N/A
Carcinogen	N/A	Sensitizer	N/A

<b>Other Hazards:</b>	Do not let into waterways

### Emergency Response

Spill or leak	Isolate for at least 50 meters (150 ft) in all directions
Large Spill	Initial downwind evacuation for at least 300 meters (1000 ft)
Fire	Isolate for 800 meters (1/2 mile) in all directions
Monitoring Method	

<u>Normal Tasks</u>	<u>PPE Group</u>
Sampling	Group 7
Drum/Tote Filling	Group 7
Strapping Tank/Truck	Group 7
Hose Disconnect Unclear (Camlock Fitting)	Group 7
Hose Disconnect Unclear (Dry Disconnect)	Group 7
Line/Equipment Opening Unclear	Group 7
Line/Equipment Opening Clear	Group 7
Contaminated Equipment in Maintenance Shop which can't be cleaned	Group 7
Tank Cleaning (No Chemicals Present)	Group 7
Tank Cleaning (Chemicals Present)	Group 7

<u>Emergency Response Tasks</u>	<u>PPE Group</u>
Small Spill	Group 7
Medium Spill	Group 7
Large Spill	Group 7
Downwind Monitoring (Vapor Only)	Group 7
Liquid Contact (HAZMAT)	Group 7

<u>Lab Handling</u>	<u>PPE Group</u>
Inside Hood	Group 13
Outside Hood	Group 14

NUMBER	KEY CODE	DESCRIPTION
GROUP 2	GENERAL PROCESS AREA	Standard PPE - Hard Hat, Nomex Coveralls, Safety Side-Shield Glasses, Work Gloves (Leather)
GROUP 7	SLICKER SUIT	Standard PPE (Group 2) with Chemical Gloves, Boots, Slicker Suit and the Required Respirator
GROUP 11	STANDARD LAB -L	Nomex Lab Coat, Safety Side-Shield Glasses, Latex Gloves
GROUP 12	STANDARD LAB -N	Nomex Lab Coat, Safety Side-Shield Glasses, Nitrile Gloves
GROUP 13	LAB & RESPIRATOR	Group 11 or 12 along with a Cartridge Respirator
GROUP 14	LAB & SMOCK	Group 11 or 12 along with goggles and smock.
<b>Respirator Type</b>	Full Face, Organic Vapor, acid gas	
<b>Chemical Glove Type</b>	Neoprene	

PPE Example



