AQUA AMMONIA (19-30%) -- Chemical Fact Sheet

What is it? ¹	Aqua Ammonia (also called, aqueous ammonia and ammonium hydroxide) is a clear, colorless liquid with a pungent, suffocating odor. Its odor allows it to be noticed at low concentrations. It if formed when anhydrous ammonia dissolves in water. Use of Aqueous Ammonia, where possible, is a safer alternative than Anhydrous Ammonia.
Where does it come from?	Ammonia is created by mixing nitrogen and hydrogen gases in the presence of a catalyst or as a by-product from the petroleum refining process. Aqua ammonia is created by dissolving anhydrous ammonia in water.
What are the common uses for it?	Household cleaner Reduction of nitrogen oxides stack emissions at power plants Use for water treatment plant Pesticides
How is it transported in CCC?	Aqueous Ammonia is shipped by truck.
How is it stored in CCC?	Aqueous Ammonia is stored in tanks.

Health Hazards from Exposure

Exposure Route	Symptoms	First Aid
Inhalation	Burning sensation	Remove to fresh air. If
(low concentrations)	Headache	breathing is difficult give
	Nausea	oxygen. Get medical
	Coughing	attention if symptoms persist.
	Wheezing	
	Shortness of breath	
Inhalation	Burning sensation	Remove to fresh air, get
(high concentrations & prolonged exposure)	Coughing, gagging	medical attention including
	Chest pain	oxygen administration.
	Fluid in lungs	Initiate CPR if breathing has
	Suffocation, death	stopped.
Ingestion	Burns of mouth, throat, and	DO NOT INDUCE
	stomach	VOMITING.
	Vomiting	Give large quantities of
	Diarrhea	water. Seek medical
		attention.

Eyes	Blurred Vision	Rinse eyes with water for at
	Redness	least 15 minutes. Seek
	Temporary blindness	medical attention.
	Permanent blindness	
Skin	Irritates skin	Wash skin with water for 15
	Redness of Skin	minutes. Remove all
	Skin burns	contaminated clothing and
		wash before reuse. Seek
		medical attention

Contra Costa RMP/CalARP Companies that Use, Store or Manufacture this Chemical²

Air Liquide Rodeo	Crockett Cogeneration	Marsh Landing Generating
		Station
Air Products Marathon	EBMUD Lafayette Water Treatment	PG&E Gateway Generating
		Station
Bollman Water Treatment	EBMUD Orinda Water Treatment	Phillips 66 San Francisco
Plant	Plant	Refinery
City of Brentwood Water	EBMUD Sobrante Filter Plant	Randall-Bold Water Treatment
Treatment Plant		Plant
Chevron Richmond	EBMUD Walnut Creek Water	Riverview Energy Center
Refinery	Treatment	
Corteva Agriscience	Los Medanos Energy Center	Shell Martinez Refinery
Criterion Catalysts	Marathon Martinez Refinery	

For More Information

US Environmental Protection Agency and Technology Transfer Network	www.epa.gov/swerceppo www.epa.gov/ttn/uatw/hapindex.html	(800)535–0202 EPCRA Hotline (919)541–0888
National Institute of Occupational Safety & Health and the Agency for Toxic Substances and Disease Registry	www.cdc.gov/niosh http://atsdr1.atsdr.cdc.gov:8080/hazdat.html	(800)477–1544
Occupational Safety and Health	www.osha.gov	(202)219–8151 or
Administration	www.osha-slc.gov/ChemSamp_data	(202)219–7056
ChemFinder®	http://Chemfinder.camsoft.com	(800)315–7300
International Safety Cards	http://siri.org/msds/mf/cards/list.html	
SDS Sites	www.msdsonline.com	
Poison Control Center	www.calpoison.org	(800) 876 - 4766
California Health Service Department Sacramento	www.dhs.ca.gov	(916) 540 - 3014
Contra Costa County Health Services – Hazardous Materials Department	www.cchealth.org/groups/hazmat	(925) 646 – 2286

This is a brief summary of information on this chemical. For more detailed information you can obtain a Safety Data Sheet from Contra Costa Health Services. You can also call any of the companies listed above for more information.

¹This information was obtained from the Agency for Toxic Substances and Disease Registry website.

²The companies listed were obtained from Business Plans submitted to Contra Costa County Health Services Department.