



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 3225 SARTELON,
MONTREAL, QUEBEC, H4R 1E8

NH3 (A-7821)

Section I. Product identification and uses		Section II. Hazardous ingredients
Product name	Ammonia reagent	- Sodium Hydroxide 4,5 - 5,5 % CAS : 1310-73-2 TLV: OSHA PEL : 2mg/M3; ACGIH TLV : C 2 mg/M3; 9293 - Potassium Iodide 1,2 - 2 % CAS : 7681-11-0 TLV: Not available - Mercuric Iodide (II) 2 - 2,5 % CAS : 7774-29-0 TLV: OSHA PEL : 0,1 mg/M3 as Hg ACGIH TLV : 0,05 mg/M3 as Hg
Chemical formula	Mixture	
Chemical family	Mixture	
Material uses	Reagent to determine ammonia level in freshwater.	
Section III. Physical data		
Physical state and appearance/ Odor	Light yellow, liquid, odorless.	
pH	13 - 14	
Percent volatile	Not available	
Freezing point	Not available	
Boiling point	Not available	
Specific gravity	1,09	
Vapor density	Not applicable	
Vapor pressure	Not applicable	
Evaporation rate	Not available	
Solubility	Completely soluble in water	
Section IV. Fire and explosion data		
- Fire and explosion hazards: Not available.		
Section V. Reactivity data		
- Stability: stable. Avoid: high temperature, contamination and light.		

Section VI. Toxicological properties	
Routes of entry	
Effects of acute exposure	Dangerous by ingestion, inhalation or skin absorption. Highly toxic. Corrosive.
Eye	Causes severe burns. May cause permanent damage.
Skin	Causes severe burns if the exposed area is not washed . Readily absorbed through skin.
Inhalation	If inhaled, causes nose and throat irritation.
Ingestion	If ingested, causes severe burns and poisoning of organs, can also cause death.
Effects of chronic overexposure	Can cause damage to the central nervous system.
Section VII First aid measures	
Eye contact	Immediately flush with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.
Skin contact	Remove the contaminated clothes and flush with plenty of water and soap. Seek immediate medical attention.
Inhalation	If inhaled, remove patient to fresh air. If the symptoms persist, consult a physician.
Ingestion	Have conscious person drink several glasses of water or milk. DO NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

Section VIII. Preventive measures	
Protective clothing in case of spill and leak	Not applicable
Spill and leak	Absorb spill with inert materials such as clays, sand, earth or vermiculite and place in closed container for disposal. Clean the spill area after product complete removal. DO NOT empty into drain.
Waste disposal	According to all applicable regulations.
Storage and handling	Store away from acids. Do not store with other incompatible materials, even in case of spill. Keep container closed and in upper position.

Section IX. Protective measures	
Protective clothing	Not applicable
Engineering controls	Not applicable

Section X. Other information	
Special precautions or comments	Toxic! Corrosive! Avoid all contact with product. Always wash hands after manipulation of product containers, and before eating.

Prepared by Rolf C. Hagen Inc. (514) 332-0914	Validated January 18, 2005	MSDS A7821
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