

Centre Anti-Poison pour le Québec: (800) 463-5060 Tél. (Qc): (418) 660-8666 / 800-890-8666 Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier				Product Use	
AMMONIUM HYDROXIDE (28-30% W/W HN3)				Laboratory use	
Chemical formula				Product code	Molar weight
NH ₄ OH				AP-0133	35,05
Chemical name / Commercia	l name / Synonymous			•	
Ammoniaque, Ammo	nia water,Aqueous ammo	onia, Ammoniac 28	8-30%		
Supplier's name			Address-Street		
Laboratoire MAT			610, Adanac Street		
City			Province		
Québec		Québec			
Postal code	Internet		Phone number		
G1C 7B7 www.labmat.com		418-660-8666 / 800-890-8666			
Emergency phone	CANUTEC: 6	CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060	
Date SDS SDS Prepared by		•	E-Mail		
2/10/2022 Laboratoire MA		Т	labmat@labmat.com		

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Acute toxicity - Or	al category A			
	Actie loxicity - Of	a calegory 4			
	Serious eye dama	ge/eye irritation - Serious eye damage category 1			
	Skin corrosion/irrit	ation - Skin corrosion category 1			
Signal Word	DANGER				
Hazards statements (H)	H302 Harmful if s	wallowed.			
	H318 Causes serie	bus eye damage.			
	H314 Causes seve	ere skin burns and eye damage.			
Precautionary statements (P)	P264	Wash the areas of the body that have been in contact with the product after handling.			
	P270	Do no eat, drink or smoke when using this product.			
	P280	Wear protective gloves/protective clothing/eye protection/face protection.			
	P305 + P351 + P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
	P310	Immediately call a POISON CENTER or doctor/physician.			
	P321	Specific treatment (see section 4 of the SDS and on this label).			
	P330	Rinse mouth.			
	P501	Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.			
	P260	Do not breathe dust / fume / gas / mist / vapors / spray.			
	P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.				
	P303 + P361 + P	353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.			
	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.			
	P363	Wash contaminated clothing before reuse.			
	P405	Store locked up.			
	P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.			
PICTOGRAMS	!				
Other dangers	N	FPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)			
	Health 3				
	Fire 1				
	Reactivity 2				
	Special danger				

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Hydroxyde d'ammonium Eau		56-62 Balance

SECTION 04 - FIRST AID MEASURES

Eye contact	If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	The product is a material corrosive. Main symptoms of high exposure: Chemical burns of the skin, eyes and respiratory and digestive mucous membranes. Eye damage. Irritation of the nose and throat. Breathing difficulties. Pulmonary edema. Effects may be delayed. Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	No
Ignition conditions	Not flammable or combustible.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: - nitrogen oxides (NOx). Ammonia.
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods and materials for	Evacuate personnel to safe areas. Absorb the product with sand or vermiculite. Dilute residues with water,
containment and cleaning up /	clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container for disposal
Personnal precautions, protective	of hazardous materials. When handling, wear suitable safety equipment. Use breathing apparatus if
equipment	necessary. Avoid breathing vapors, mist or gas. Do not let product enter drains.

SECTION 07 - HANDLING AND STORAGE

Store in a well-ventilated area. Store in a cool, dry place. Keep container tightly closed and store away from incompatible products, heat, sparks, and open flame. Over time, the pressure can increase and inflate the containers.
Release of toxic ammonia vapor. This product has a very strong odor. Ensure good ventilation. Use a hood preferably. Avoid ingestion and inhalation. Always open containers slowly to allow any excess pressure to vent. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Composants	NoCAS	Value	Control parameters	Basis
Ammoniac, anhydrous	7664-41-7	VEMP	25 ppm 17 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		VECD	35 ppm 24 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	25 ppm 17 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	35 ppm 24 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	25 ppm	Canada. British Columbia OEL
		STEL	35 ppm	Canada. British Columbia OEL

Data source Sigma-Aldrich (Millipore Sigma) Ventilation Fan. Respiratory If work under the hood is not possible, or if the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply. Gloves Handle with gloves. Safety goggles with safety shutters. Face shield (20 cm minimum). Eyes Shoes Safety shoes. Labcoat. The type of protective equipment must be selected according to the concentration and amount Clothing of the dangerous substance at the specific workplace. Engineering control Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Appearance	Liquide incolore-
Odour	Odeur suffocante.
Odour threshold	Data not available
рН	pH= 11.6 (1.0 N solution); 11.1 (0.1 N solution); 10.6 (0.01 N solution).
Melting point / Freezing point	-60°C
Initial boiling point	38 - 100 °C (100 - 212 °F) à 1,013 hPa (760 mmHg)°C
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	16% v/v
Upper flammable / Explosive limit	27% v/v
Vapour pressure	153 hPa (115mmHg) @ 20°CmmHg
Vapour density	1.21 (Air=1)-
Relative density	0.90g/ml à 25°C
Solubility	Miscible avec l'eau.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	651°C
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Basic product, reacts violently with strong acids.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Stable under normal conditions.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid contact with incompatible materials and extreme temperatures.
Incompatible material	Acids, strong oxidizing agents, acrolein, iodine, aluminum, silver, bromine, calcium hypochlorite, chlorine, copper, and its alloys, dimethyl sulphate, iron galvanized, iodine, zinc, mercury, silver salts, nitromethane, gold, bleaches, propylene oxide, heat and moisture.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions nitrogen oxides (NOx). Ammonia.

SECTION 11 - TOXICOLOGICAL INFORMATION

AMMONIUM HYDROXIDE (28-30% W/W HN3)

Routes of exposure	Inhalation and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Causes eye burns.
- Skin	May be harmful if absorbed through skin. Causes skin burns.
- Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Acute toxicity (Ingestion)	Burns and ulcerations of the mouth, throat and esophagus. Dysphagia, abdominal pain, cramps, diarrhea, hematemesis, headache, dizziness, possible perforation of the stomach and esophagus, stenosis, tremors, convulsions, stupor, circulatory collapse, unconsciousness, coma and can lead to death .
Chronic exposure effects / symptoms	Burning sensation, dermatitis, conjunctivitis, nervous disorders, eye and lung damage, chest pain, cough, dyspnoea, laryngitis, headache, dizziness, confusion, irritability, tearing, choking, sweating, salivation, tremors, fatigue loss of weight and loss of appetite, convulsions, nausea and vomiting.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 350 mg/kg. (NH3) LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 2000 ppm (NH3)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Data not available.
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
	Very toxic to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

•	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	2672
UN Proper shipping name	AMMONIAC EN SOLUTION aqueuse contenant plus de 10% mais au maximum 35% d'ammoniac
Transport hazard class(es)	8 Corrosive substances
Packing group	
Limited quantity index	5L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA Acute toxicity - Oral category 4 Serious eye damage/eye irritation - Serious eye damage category 1 Skin corrosion/irritation - Skin corrosion category 1

SECTION 16 - OTHER INFORMATION

Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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