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Section 1. Identificat	ion	
Product Identifier	Ammonium Hydroxide 30%	Version: 8
		Effective Date: 25 January 2021
Other Means Of	Liquid ammonia	
Identification		
Initial Supplier	Chemfax Products Ltd.	
Identifier	11444 – 42 Street SE	
	Calgary, AB T2C 5C4	
	Tel: 403-287-2055	
Recommended Use	General Chemical, degreaser, household	cleaner. No restrictions.
and Restrictions On		
Use		
Product Family An	nine	
Emergency Phone 1	-855-887-2055 Monday - Friday 8:00am -	4:30pm MST

Section 2. Hazard Identifica	tion
Hazard Classification	
Health Hazards	Skin Corrosion/Irritation – Category 1A Eye Damage/Irritation – Category 1 Acute Oral Toxicity – Category 4
Environmental Hazards	Acute Aquatic Toxicity (Short Term) – Category 1
Signal Word	Danger
Hazard Statement	May be harmful if swallowed. May cause severe skin burns and serious eye damage. Very toxic to aquatic life.
Precautionary Prevention Statements	Do not inhale dust or mist. Wash thoroughly after handling. Wear protective clothing, gloves, and eye & face protection. Do not eat, drink or smoke when using this product. Avoid release into the environment.



Precautionary Response	IF SWALLOWED: Rinse mouth. Do not induce vomiting. Seek	
Statements	medical attention.	
	IF ON SKIN (or hair): Immediately remove all contaminated	
	clothing. Rinse skin with water. Launder contaminated clothing	
	before reuse.	
	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	IF IN EYES: Rinse cautiously with water for several minutes.	
	Remove contact lenses if present and easy to do so. Continue	
	rinsing. Treat symptomatically. Immediately seek medical	
	attention.	
	Collect spillage	
Precautionary Storage	Store locked up	
Statement	•	
Precautionary Disposal	Dispose of in accordance with local, provincial or national	
Statement	regulations	
Other Hazards	None	

Section 3. Composition/Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS No. and Other Unique Identifiers	% by weight
Ammonium hydroxide	Liquid ammonia	1336-21-6	10-30

Section 4. First-Aid Measu	ires
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists, seek medical
	attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek
	immediate medical attention.
Ingestion	Rinse mouth. Do not induce vomiting, seek immediate medical
	attention.
Most Important	Causes burns by all exposure routes. Ingestion causes severe swelling,
Symptoms and Effects,	severe damage to delicate tissue and danger of perforation. Product is a
Acute and Delayed	corrosive material. Use of gastric lavage or emesis is contraindicated.
	Possible perforation of stomach or esophagus should be investigated.
Immediate Medical	Causes burns by all exposure routes. Ingestion causes severe swelling,
Attention and	severe damage to the delicate tissue, and danger of perforation. Product
Specific Treatment	is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated.



Section 5. Fire-Fighting Measures		
Suitable and Unsuitable	Use extinguishing media suitable for surrounding fire.	
Extinguishing Media		
Hazardous	Ammonia and oxides of nitrogen.	
Combustion Products		
Specific Hazards Arising	Keep product and empty container away from heat and sources of	
From the Product	ignition. Thermal decomposition can lead to release of irritating	
	gases and vapors.	
Special Protective	Fire-fighters should wear self-contained breathing apparatus and full	
Equipment and	protective clothing. Use water spray to cool containers and structures	
Precautions for Fire-	exposed to fire.	
Fighters		

Section 6. Accidental Relea	se Measures
Personal Precautions,	Respiratory protection, chemical resistant gloves (neoprene), coveralls
Protective Equipment,	(rubber suit), and footwear (rubber boots).
and Emergency	Keep people away from any upwind of spill/leak. Evacuate personnel
Procedures	to safe areas. Avoid contact with skin, eyes and inhalation of vapors.
Environmental	Do not allow spilt material to enter sewers and surface watercourses.
Precautions	
Methods and Materials	Ventilate area. Isolate hazard area and restrict access. Pump up spilled
for Containment and	material. Residues can be neutralized with a dilute acid such as acetic
Clean-up	acid. Neutralized waste should be placed in a suitable container for
	disposal.

Section 7. Handling and Storage		
Precautions for Safe Handling	Handle with care. Keep containers closed and stored locked up, when not in use. Empty containers may contain residues.	
Conditions for Safe Storage	Store in a cool dry place. Keep away from direct sunlight, heat, sparks and naked flames. Store away from incompatible materials. Storage temperature <25°C.	

Section 8. Exposure Cont	rols / Personal Pro	tection		
Control Parameters Ammonium hydroxide	TWA: 8 Hr 25 ppm ACGIH	STEL: 15 min 35 ppm ACGIH	Ceiling	IDLH * 300 ppm
	· · · · · · · · · · · · · · · · · · ·	Dangerous to Life and	Health	
Exposure Controls	Local exhaust ve	entilation		



Appropriate Engineering Controls	Use only under good ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.	
Individual Protective Measures	If exposure limits are exceeded:	
Eye and Face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tightly fitting safety goggles. Face-shield.	
Skin Protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	Air purifying respirator fitted with ammonia filters Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	

Section 9. Physical and Chemical Properties		
Appearance	Clear, colorless liquid	
Odour	Strong pungent, irritating ammonia odour	
Odour Threshold	No data.	
pH	13.8 (29 % solution).	
Flash Point	No data	
Boiling Point and Boiling Range	38 - 100°C (100 – 212 °F) at 101.325 kPa (760 mmHg)	
Melting Point and Freezing Point	-37.5 °C; No data	
Evaporation Rate	No data.	
Flammability (solid, gas)	Not applicable	
Upper and Lower Flammability	Not available	
or Explosive Limits		
Vapour Pressure	3.75 psi @ 20 °C	
Vapour Density	0.6	
Relative Density	0.9	
Solubility	Soluble	
Partition co-efficient, n-	Not available	
Octanol/Water		
Auto-ignition Temperature	651 °C	
Decomposition Temperature	Not available	
Viscosity	Not available	

Section 10. Stability and Reactivity	
Reactivity	None known
Chemical Stability	Stable



Possibility of Hazardous	Will not occur
Reactions	
Conditions to Avoid	Direct sunlight. Excessive heat, open flames, and all ignition sources.
Incompatible Materials	Acids, acrolein, dimethyl sulphate, halogens, propylene oxide,
	nitromethane, silver oxide, hydroreactive materials (e.g. Oleum),
	and silver permanganate.
Hazardous Decomposition	Not expected to decompose under normal conditions of use.
Products	

Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium hydroxide	350mg/kg (Rat)		5.1 mg/L (1h) Rat 2000 ppm (4h) Rat
Likely Routes of Exposure	·		
Skin:	May cause but	rns and irritation.	
Eyes:	-	•	o the eyes. Splashes may cause lamage. Eye contact may cause
Inhalation:	irritating to the fatal. May agg	e respiratory tract. Bri ravate existing respira	•
Ingestion:	•		ve. May cause severe pain in the to coughing, vomiting and
	Gastric or oes	ophageal perforation	may occur and lung irritation or
	oedema may o ml may be fata	-	ect. Ingestion of as little as $3-4$
Acute Toxicity Estimates (ATE)	Not available		
STOT (Specific Target	Causes burn b	y all routes of exposu	re.
Organ Toxicity) - Single			
Exposure			
Aspiration Toxicity	Not available		
STOT (Specific Target	Not available		
Organ Toxicity) –			
Repeated Exposure			
Skin Corrosion / Irritation	Causes burns		
Serious Eye Damage /	Causes burns		
Irritation Skin	Not available		
Respiratory or Skin Sensitization	Not available		
Carcinogenicity	Not classified		
Reproductive Toxicity	1 tot classifica		



- Sexual Function and Fertility	Not available
- Development of	Not available
Offspring	
- Effects on or via	Not available
Lactation	
Germ Cell Mutagenicity	Not available
Interactive Effects	Not available
Other Information	None

Section 12. Ecological Information	
Ecotoxicity	Ammonium hydroxide
	LC50: 5.9 mg/L (Pimephales promelas) 96 hr static
Persistence and	Will not persist
Degradability	
Bioacumulative Potential	This material is not expected to bioaccumulate.
Biodegradability	No data
Mobility in Soil	Not available
Special Remarks	This material is expected to be toxic to aquatic life.
Other Adverse Effects	None known

Section 13. Disposal Considerations	
Disposal Considerations	Dispose of contents/container in accordance with local regulations.

Section 14. Transport Information	
UN Number	2672
UN Proper Shipping Name	Ammonia Solution
Transport Hazard Class(es)	8
Packaging Group	III
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	154

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances
	List (DSL), Non-Domestic Substances List (NDSL), or exempt
TSCA	All components of this product are either on the Toxic Substances
	Control Act (TSCA) Inventory List or exempt
Additional Information	None



Section 16. Other Information	
NFPA Rating	Health-2/ Flammability-0/Reactivity-1/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-1/Personal Protection-See Section 8.
SDS Prepared by:	Chemfax Products Ltd., Technical Department
Revision Date:	7 February, 2016
Date of Latest Revision: 25 January 2021	

DisclaimerNotice to reader

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