

Safety Data Sheet According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations (WHMIS 2015) Revision Date: 01/30/20

Version:2.2

SECTION 1: IDENTIFICATION

Product Identifier

Product Name: Manufacturing Nitrogen Solution Synonyms: ANA-440 (24-70-0) Ammonia - Ammonium Nitrate, ANA-448 (25-69-0) Ammonia - Ammonium Nitrate Intended Use of the Product Not available

Name, Address, and Telephone of the Responsible Party

Company

LSB Chemical L.L.C. 1080 Industrial Drive Cherokee, AL 35616 T (256) 359-7000 - F (256) 359-4450

Emergency Telephone Number

Emergency number : (256) 359-7000, (800) 424-9300 (CHEMTREC, 24 hours)

SECTION 2: HAZARDS IDENTIFICATION

Classification of	the Substan	nce or	Mixt	:ure
Classification (GH	IS-US)			
Ox. Liq. 3	H272			
Skin Corr. 1B	H314			
Eye Dam. 1	H318			
STOT SE 3	H335			
Aquatic Acute 1	H400			
Aquatic Chronic 2	H411			
Label Elements				
GHS-US Labeling				
Hazard Pictogram	ns (GHS-US)		:	



Signal Word (GHS-US)	:	Danger
Hazard Statements (GHS-US)	:	 H272 - May intensify fire; oxidizer H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H335 - May cause respiratory irritation H400 - Very toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects
Precautionary Statements (GHS-US)	:	 P210 - Keep away from heat, sparks, open flames, hot surfaces No smoking. P220 - Keep/Store away from combustible materials, clothing, incompatible materials. P221 - Take any precaution to avoid mixing with combustibles, organic material, clothing, incompatible materials. P260 - Do not breathe vapors, mist, spray. P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - 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.

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P305+P351+P338 - 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.
P312 - Call a POISON CENTER/doctor/physician if you feel unwell.
P321 - Specific treatment (see section 4).
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use appropriate media for extinction.
P391 - Collect spillage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. May decompose to ammonia, hydrogen, nitrogen oxide and nitrogen at temperatures above 301.67°C (575°F). **Unknown Acute Toxicity (GHS-US)** Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Ammonium nitrate	(CAS No) 6484-52-2	69 - 70	Ox. Sol. 3, H272
			Eye Irrit. 2A, H319
Ammonia	(CAS No) 7664-41-7	24 - 25	Flam. Gas 2, H221
			Compressed gas, H280
			Acute Tox. 3 (Inhalation:gas), H331
			Skin Corr. 1B, H314
			Eye Dam. 1, H318
			STOT SE 3, H335
			Aquatic Acute 1, H400
			Aquatic Chronic 2, H411
Water	(CAS No) 7732-18-5	6	Not classified

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Get immediate medical advice/attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention immediately.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

Most Important Symptoms and Effects Both Acute and Delayed

General: Corrosive. Causes burns. Causes serious eye damage. May cause respiratory irritation.

Inhalation: Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

Skin Contact: Contact may cause immediate severe irritation progressing quickly to chemical burns.

Eye Contact: Causes serious eye damage.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not available

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Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. Hot Ammonium Nitrate burns skin, allowing rapid absorption of Ammonium Nitrate through the skin and toxic effects can occur quite rapidly. Causes methemoglobenemia – emergency response should treat appropriately.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray.

Unsuitable Extinguishing Media: Dry chemical, carbon dioxide, or regular foam.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: May intensify fire; oxidizer. Will burn if exposed to heat, and in addition, will accelerate the burning of other combustibles, resulting in more rapid spread of fire.

Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Smothering, contact with organic material, or combustible material may cause an explosive situation.

Reactivity: May cause or intensify fire; oxidizer. May accelerate the burning of other combustible materials. Smothering, contact with organic material, or combustible material may cause an explosive situation.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. **Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Nitrogen oxides. Toxic fumes are released. Ammonia.

Other information: Do not add water to molten material as this may cause spattering. Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing (vapors, mist, spray). Do not get in eyes, on skin, or on clothing. Keep away from combustible material.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill. Do not take up in combustible material such as: saw dust or cellulosic material.

Reference to Other Sections

See section 8, Exposure Controls and Personal Protection.

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SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes. Smothering, contact with organic material, or combustible material may cause an explosive situation. Do not puncture or incinerate container. May decompose to ammonia, hydrogen, nitrogen oxide and nitrogen at temperatures above 301.7 °C (575°F).

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations. **Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from combustible materials, extremely high or low temperatures, direct sunlight, ignition sources, incompatible materials. Storage should be designed for the safe release of pressure. Floor drains and recessed areas should be plugged or eliminated to prevent entrapment of solution.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Halogens (F, Cl, Br, I). Chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. Organic materials. Combustible materials. Copper and its alloys. Zinc.

Specific End Use(s) Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Ammonia (7664-41-7)		
Mexico	OEL TWA (mg/m ³)	18 mg/m ³
Mexico	OEL TWA (ppm)	25 ppm
Mexico	OEL STEL (mg/m ³)	27 mg/m ³
Mexico	OEL STEL (ppm)	35 ppm
USA ACGIH	ACGIH TWA (ppm)	25 ppm
USA ACGIH	ACGIH STEL (ppm)	35 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	35 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	18 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	27 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	35 ppm
USA IDLH	US IDLH (ppm)	300 ppm
Alberta	OEL STEL (mg/m ³)	24 mg/m ³
Alberta	OEL STEL (ppm)	35 ppm
Alberta	OEL TWA (mg/m³)	17 mg/m ³
Alberta	OEL TWA (ppm)	25 ppm
British Columbia	OEL STEL (ppm)	35 ppm
British Columbia	OEL TWA (ppm)	25 ppm
Manitoba	OEL STEL (ppm)	35 ppm
Manitoba	OEL TWA (ppm)	25 ppm
New Brunswick	OEL STEL (mg/m ³)	24 mg/m ³
New Brunswick	OEL STEL (ppm)	35 ppm
New Brunswick	OEL TWA (mg/m³)	17 mg/m ³
New Brunswick	OEL TWA (ppm)	25 ppm
Newfoundland & Labrador	OEL STEL (ppm)	35 ppm
Newfoundland & Labrador	OEL TWA (ppm)	25 ppm
Nova Scotia	OEL STEL (ppm)	35 ppm
Nova Scotia	OEL TWA (ppm)	25 ppm
Nunavut	OEL STEL (mg/m³)	24 mg/m ³
Nunavut	OEL STEL (ppm)	35 ppm

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Nunavut	OEL TWA (mg/m ³)	17 mg/m ³
Nunavut	OEL TWA (ppm)	25 ppm
Northwest Territories	OEL STEL (mg/m ³)	24 mg/m ³
Northwest Territories	OEL STEL (ppm)	35 ppm
Northwest Territories	OEL TWA (mg/m³)	17 mg/m ³
Northwest Territories	OEL TWA (ppm)	25 ppm
Ontario	OEL STEL (ppm)	35 ppm
Ontario	OEL TWA (ppm)	25 ppm
Prince Edward Island	OEL STEL (ppm)	35 ppm
Prince Edward Island	OEL TWA (ppm)	25 ppm
Québec	VECD (mg/m ³)	24 mg/m ³
Québec	VECD (ppm)	35 ppm
Québec	VEMP (mg/m ³)	17 mg/m ³
Québec	VEMP (ppm)	25 ppm
Saskatchewan	OEL STEL (ppm)	35 ppm
Saskatchewan	OEL TWA (ppm)	25 ppm
Yukon	OEL STEL (mg/m ³)	30 mg/m ³
Yukon	OEL STEL (ppm)	40 ppm
Yukon	OEL TWA (mg/m³)	18 mg/m ³
Yukon	OEL TWA (ppm)	25 ppm

Exposure Controls

Appropriate Engineering Controls: Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection. Protective clothing.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles.

Skin and Body Protection: Neoprene, nitrile or PVC gloves and protective clothing recommended.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

Other Information: When using, do not eat, drink or smoke.

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SECTION 9: PHYSICAL AND CHEMICAL PROP	ER	TIES
Information on Basic Physical and Chemical Proper	ties	<u>)</u>
Physical State	:	Liquid
Appearance	:	Clear
Odor	:	Trace odor of ammonia.
Odor Threshold	:	Not available
рН	:	12
Relative Evaporation Rate (butylacetate=1)	:	Not available
Melting Point	:	Not available
Freezing Point	:	Not available
Boiling Point	:	Not available
Flash Point	:	Not available
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	301.7 °C (575°F)
Flammability (solid, gas)	:	Not available
Lower Flammable Limit	:	16 % (Ammonia Vapor)
Upper Flammable Limit	:	25 % (Ammonia Vapor)
Vapor Pressure	:	17 psig@ 40°C (104°F)
Relative Vapor Density at 20 °C	:	0.6 (Air = 1)
Relative Density	:	Not available
Specific Gravity	:	1.12 - 1.15 @15.6°C (60°F)
Solubility	:	Complete.
Viscosity	:	Not available
Explosion Data – Sensitivity to Mechanical Impact	:	Not available
Explosion Data – Sensitivity to Static Discharge	:	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: May cause or intensify fire; oxidizer. May accelerate the burning of other combustible materials. Smothering, contact with organic material, or combustible material may cause an explosive situation.

Chemical Stability: May intensify fire; oxidizer.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Overheating. Open flame. Combustible materials. Sources of ignition. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Halogens. Chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. Combustible materials. Organic materials. Zinc. Copper and its alloys.

Hazardous Decomposition Products: Nitrogen oxides. Toxic vapors. Ammonia. Explosive hydrogen gas. Nitric acid.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product Acute Toxicity: Not classified LD50 and LC50 Data: Not available Skin Corrosion/Irritation: Causes severe skin burns and eye damage. pH: 12 Serious Eye Damage/Irritation: Causes serious eye damage. pH: 12 Respiratory or Skin Sensitization: Not classified Germ Cell Mutagenicity: Not classified Teratogenicity: Not available Carcinogenicity: Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified Reproductive Toxicity: Not classified Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

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Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

Symptoms/Injuries After Skin Contact: Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg
Ammonium nitrate (6484-52-2)	
LD50 Oral Rat	2217 mg/kg
LC50 Inhalation Rat (mg/l)	> 88.8 mg/l/4h
Ammonia (7664-41-7)	
LD50 Oral Rat	350 mg/kg
LC50 Inhalation Rat (mg/l)	5.1 mg/l (Exposure time: 1 h)
LC50 Inhalation Rat (ppm)	2000 ppm/4h (Exposure time: 4 h)
CECTION 42. ECOLOCICAL INFORMAT	

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Very toxic to aquatic life with long lasting effects.

Ammonia (7664-41-7)	
LC50 Fish 1	0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio)
EC50 Daphnia 1	25.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	0.26 - 4.6 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
Persistence and Degradability	
Manufacturing Nitrogen Solution	
Persistence and Degradability	May cause long-term adverse effects in the environment.
Bioaccumulative Potential	
Manufacturing Nitrogen Solution	
Bioaccumulative Potential	Not established.
Ammonium nitrate (6484-52-2)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	-3.1 (at 25 °C)
Ammonia (7664-41-7)	

Log Pow

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Clean up even minor leaks or spills if possible without unnecessary risk.

-1.14 (at 25 °C)

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SECTION 14: TRANSPORT IN	FORMATION	
14.1 In Accordance with DOT		
Proper Shipping Name	: CORROSIVE LIQUIDS, N.O.S.	(contains ammonia and ammonium nitrate)
Hazard Class	: 8	
Identification Number	: UN1760	
Label Codes	: 8	8
Packing Group	: 111	
Marine Pollutant	: Marine pollutant	
ERG Number	: 140	
14.2 In Accordance with IMDO	3	
Proper Shipping Name	: CORROSIVE LIQUID, N.O.S.(contains ammonia and ammonium nitrate)
Hazard Class	: 8	
Identification Number	: UN1760	
Packing Group	: 111	
Label Codes	: 8	
EmS-No. (Fire)	: F-A	
EmS-No. (Spillage)	: S-B	8
Marine pollutant	: Marine pollutant	
14.3 In Accordance with IATA		
Proper Shipping Name	: CORROSIVE LIQUID, N.O.S. (contains ammonia and ammonium nitrate)
Packing Group	: 111	
Identification Number	: UN1760	
Hazard Class	: 8	
Label Codes	: 8	8
ERG Code (IATA)	: 8L	
14.4 In Accordance with TDG		
Proper Shipping Name	: CORROSIVE LIQUID, N.O.S.(contains ammonia and ammonium nitrate)
Packing Group	: 111	
Hazard Class	: 8	<u>í</u>
Identification Number	: UN1760	
Label Codes	: 8	8
Marine Pollutant (TDG)	: Marine pollutant	
SECTION 15: REGULATORY II	NFORMATION	
US Federal Regulations		
Manufacturing Nitrogen Solution	1	
SARA Section 311/312 Hazard Cla		Immediate (acute) health hazard
		Reactive hazard

	Reactive hazard
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act	t) inventory
Ammonium nitrate (6484-52-2)	
Listed on the United States TSCA (Toxic Substances Control Act	t) inventory
Ammonia (7664-41-7)	
Listed on the United States TSCA (Toxic Substances Control Act	t) inventory
Listed on SARA Section 302 (Specific toxic chemical listings)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 302 Threshold Planning Quantity (TPQ)	500
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard

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	Sudden release of pressure hazard
SARA Section 313 - Emission Reporting	1.0 % (includes anhydrous Ammonia and aqueous Ammonia from
	water dissociable Ammonium salts and other sources, 10% of total
	aqueous Ammonia is reportable under this listing)
US State Regulations	

Ammonium nitrate (6484-52-2) U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1 U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2 U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2 RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - Special Health Hazards Substances List RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List RTK - U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term Ammonia (7664-41-7) U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min) U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S. - Connecticut - Water Quality Standards - Acute Freshwater Aquatic Life Criteria U.S. - Connecticut - Water Quality Standards - Acute Saltwater Aquatic Life Criteria U.S. - Connecticut - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria U.S. - Connecticut - Water Quality Standards - Chronic Saltwater Aquatic Life Criteria U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities U.S. - Delaware - Accidental Release Prevention Regulations - Threshold Quantities U.S. - Delaware - Accidental Release Prevention Regulations - Toxic Endpoints U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Florida - Essential Chemicals List U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs) U.S. - Idaho - Occupational Exposure Limits - TWAs U.S. - Louisiana - Reportable Quantity List for Pollutants U.S. - Maine - Air Pollutants - Criteria Pollutants U.S. - Massachusetts - Allowable Ambient Limits (AALs) U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs) U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1 U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2 U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2 RTK - U.S. - Massachusetts - Right To Know List U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs) U.S. - Massachusetts - Toxics Use Reduction Act

U.S. - Michigan - Occupational Exposure Limits - STELs

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U.S. - Michigan - Polluting Materials List U.S. - Michigan - Process Safety Management Highly Hazardous Chemicals U.S. - Minnesota - Chemicals of High Concern U.S. - Minnesota - Hazardous Substance List U.S. - Minnesota - Permissible Exposure Limits - STELs U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances U.S. - New Jersey - Environmental Hazardous Substances List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - Special Health Hazards Substances List U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS) U.S. - New Jersey - Water Quality - Ground Water Quality Criteria U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs) U.S. - New Mexico - Precursor Chemicals U.S. - New York - Occupational Exposure Limits - TWAs U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances U.S. - North Carolina - Control of Toxic Air Pollutants U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour U.S. - Ohio - Accidental Release Prevention - Threshold Quantities U.S. - Ohio - Extremely Hazardous Substances - Threshold Quantities U.S. - Oregon - Permissible Exposure Limits - TWAs U.S. - Oregon - Precursor Chemicals RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List RTK - U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual U.S. - Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria U.S. - Rhode Island - Water Quality Standards - Acute Saltwater Aquatic Life Criteria U.S. - Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria U.S. - Rhode Island - Water Quality Standards - Chronic Saltwater Aquatic Life Criteria U.S. - Tennessee - Occupational Exposure Limits - STELs U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term U.S. - Vermont - Permissible Exposure Limits - STELs U.S. - Virginia - Water Quality Standards - Acute Freshwater Aquatic Life U.S. - Virginia - Water Quality Standards - Acute Saltwater Aquatic Life U.S. - Virginia - Water Quality Standards - Chronic Freshwater Aquatic Life U.S. - Virginia - Water Quality Standards - Chronic Saltwater Aquatic Life U.S. - Virginia - Water Quality Standards - Public Water Supply Effluent Limits U.S. - Virginia - Water Quality Standards - Surface Waters Not Used for the Public Water Supply Effluent Limits U.S. - Washington - Permissible Exposure Limits - STELs U.S. - Washington - Permissible Exposure Limits - TWAs U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet U.S. - Wyoming - Process Safety Management - Highly Hazardous Chemicals U.S. - Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Fresh Water U.S. - Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Fresh Water U.S. - Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Marine Water

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	ity Standards - Chronic Aquatic Life Criteria for Marine Water
U.S Alaska - Ambient Air	Quality Standards
Canadian Regulations	
Manufacturing Nitrogen S	olution
WHMIS Classification	Class C - Oxidizing Material
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Water (7732-18-5)	
	L (Domestic Substances List) inventory.
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Ammonium nitrate (6484	
	L (Domestic Substances List) inventory
Listed on the Canadian DS	
Listed on the Canadian DS WHMIS Classification	Class C - Oxidizing Material
	Class C - Oxidizing Material
WHMIS Classification Ammonia (7664-41-7)	Class C - Oxidizing Material
WHMIS Classification Ammonia (7664-41-7)	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects L (Domestic Substances List) inventory.
WHMIS Classification Ammonia (7664-41-7) Listed on the Canadian DS	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects L (Domestic Substances List) inventory.
WHMIS Classification Ammonia (7664-41-7) Listed on the Canadian DS Listed on the Canadian Ing	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects L (Domestic Substances List) inventory. gredient Disclosure List
WHMIS Classification Ammonia (7664-41-7) Listed on the Canadian DS Listed on the Canadian Ing	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects L (Domestic Substances List) inventory. gredient Disclosure List Class A - Compressed Gas

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date	
Other Information	

: 01/30/2020
: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Compressed gas	Gases under pressure Compressed gas
Flam. Gas 2	Flammable gases Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Ox. Sol. 3	Oxidizing solids Category 3
Ox. Liq. 3	Oxidizing liquids Category 3
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H221	Flammable gas
H272	May intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation

Safety Data Sheet

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	H331	Toxic if inhaled
	H335	May cause respiratory irritation
	H400	Very toxic to aquatic life
	H411	Toxic to aquatic life with long lasting effects
NFPA	Health Hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA	Fire Hazard	: 1 - Must be preheated before ignition can occur. 3×3
NFPA	Reactivity	: 3 - Capable of detonation or explosive reaction, but requires a strong initiating source or must be heated under confinement before initiation, or reacts explosively with water.
NFPA	Specific Hazard	: OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.
Party	Responsible for the Prepa	tion of This Document
1080	hemical L.L.C. Industrial Drive Ikee, AL 35616	

T (256) 359-7000

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS