

LidoChem, Inc.

20 Village Court
 Hazlet, NJ 07730
 Phone#: (732) 888 8000
 Fax#: (732) 264 2751

EMERGENCY NUMBER: After hours, holidays, and all other non-business address, call CHEMTREC at 800 424 9300

MATERIAL SAFETY DATA SHEET

MSDS#:	1025
Product Code:	LQ30-0-0
Date Printed:	01/29/08
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SECTION I - PRODUCT IDENTIFICATION

Trade Name: LidoQuest 30-0-0
 Chemical Description: Nitrogen solution
 Chemical Activity: 30% N

SECTION II - HAZARDOUS INGREDIENTS/ INGREDIENTS IDENTITY INFORMATION

CAS#	Common Name	% by Wt.	CAS#	Common Name	% by Wt.
15978-77-5	Urea ammonium nitrate	84.00%			
57-13-6	Urea	14.00%			
84775-78-0	Sea plant Extract	2.00%			

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: >200°F
 Melting Point: N/Ap
 Specific Gravity: 1.26 @ 65°F
 pH: 7.0
 Vapor Pressure(mm/hg): Not established
 Vapor Density(air=1): Not established
 Appearance And Odor: Colorless liquid with a slight ammonia odor

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point: Not Established
 Flammable Limits: Not Established LEL: N/A UEL: N/A
 Extinguisher Media: This product is noncombustible. Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol, polymer, or ordinary) for large fires.
 Special Fire Fighting Procedures: Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Positive pressure self-contained breathing apparatus (SCBA) should be used when there is a potential for inhalation of vapors and/or fumes. Wear full fire fighting protective equipment that is appropriate for conditions.

Unusual Fire and Explosion Hazards: Decomposes on heating to nitrogen oxides.

SECTION V - STABILITY AND REACTIVITY DATA

Stability: This product is stable at ambient temperatures and atmospheric pressures.
 Conditions to Avoid: UAN will form urea nitrate when mixed with nitric acid at low pH. Urea nitrate may become unstable and/or explosive under certain conditions.
 Incompatible Materials: UAN will form nitrogen trichloride, which may be explosive, when mixed with chlorine and hypochlorites.

Hazardous Decomposition Products: When the water in UAN evaporates, residue may include solid ammonium nitrate and urea - which may become unstable and/or explosive.

Polymerization Conditions To Avoid: Hazardous polymerization is not expected to occur.

Hazardous Combustion Products: When UAN is heated to decomposition it may produce vapors containing nitrogen oxides and ammonia.

SECTION VI - HAZARD(S) IDENTIFICATION

Route(s) of Entry: Ingestion and Dermal.

Emergency Overview: Not considered a hazardous product.
Product is not flammable.

Potential Health Effects: **Eye:** Cause irritation, redness, pain **Skin:** Causes irritation, redness, itching and pain. **Inhalation:** Causes irritation to the gastrointestinal tract. **Ingestion:** Generally not considered an inhalation hazard.

Signs & Symptoms Of Exposure: Eye redness and itching Skin itching and redness
Coughing and shortness of breath if inhaled.

OSHA Status: This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

Carcinogenicity Mutagenicity: Not considered a carcinogen, not a mutagen.

First Aid Procedures:

Ingestion: **DO NOT INDUCE VOMITING.** Give several glasses of water or milk. When vomiting occurs, keep head below hips to reduce risk of aspiration. Give fluids again. Contact Poison Control Center immediately. **Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.**

Eyes: Flush eyes with large quantities of running water for a minimum of 15 minutes. If victim is wearing contact lenses, remove them. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water. **DO NOT** let victim rub eye(s). Do not attempt to neutralize with chemical agents. Get medical attention if eye irritation occurs.

Skin: Remove contaminated clothing and immediately wash with soap and water for a minimum of 15 minutes. Wash clothing before reuse. Get immediate medical attention if irritation occurs.

Inhalation: Remove to fresh air. If breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration. Get medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING , USE & DISPOSAL

Steps To Be Taken In Case Material Is Released Or Spilled: Consult with environmental regulatory agencies for acceptable procedures of disposal. Stop source of spill. Collect liquid and mop up or pump up spilled material into metal or plastic drums. If uncontaminated, reuse as product. If contaminated, place in a plastic recovery drum for proper disposal. Do not contaminate drain. Wear appropriate personal protective gear during cleanup.

Handling and Storage Precautions: Do not use zinc or copper (brass, bronze, etc.) alloys in contact with UAN solution due to corrosion. Also, cast iron, malleable iron or ductile iron are much more susceptible to corrosion than aluminum or carbon steel. Be especially wary of plugs and fittings on storage tanks made from these materials.

Use proper personal protective equipment when working with or around UAN.

Waste Disposal

Methods: characteristics/listings. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristic/listing. Dispose in accordance with all local, state and federal regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

Container Disposal Information: Containers should be cleaned of residual product before disposal. Empty containers should be disposed of in accordance with all applicable laws and regulations.

SECTION VIII - EXPOSURE CONTROL & PERSONAL PROTECTION

Skin Protection: Skin contact with this product should be minimized through the use of suitable protective clothing and impervious gloves selected with regard for use condition exposure potential.

Respiratory Protection: UAN itself does not pose an inhalation hazard. Decomposition of UAN may produce nitrogen oxides and ammonia. Use fresh air supply systems to protect against nitrogen oxide and/or ammonia vapors. When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne

Eye Protection: It is generally regarded as good practice to wear a minimum of safety glasses with side shields if there is potential for UAN to contact the eyes.

Other Protection: Safety shower and eyewash fountain or at least 5 gallons of accessible clean water should be provided in a UAN handling area.

Hygienic Practices: All food and smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed.

Section IX - Transport Information

Proper Shipping Name:	LidoQuest 30-0-0		
D. O. T. Hazard Class:	Not regulated by D.O.T.	UN:	N/Ap
Label Requirement:	None	RQ:	
Placard:	None		
Packing Group:	N/Ap	CAS:	Mixture

Key Legend Information:

N/Av: Not Available N/Ap: Not Applicable OSHA: Occupational Safety and Health Administration

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This Material Safety Data Sheet was prepared to comply with OSHA Hazard Communication standard. (29 CFR 1910.1200). This supersedes any previous information. All LidoChem, Inc. MSDS's are reviewed every three years or sooner if necessary. Please check the Review Date on Page 1 for most current version. Please request a new MSDS from LidoChem, Inc. if the date is older than 3 years.

NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Material Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Material Safety Data Sheet available to your employees.