

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#:	844
Product Code:	KKAGRAMIX
Date Printed:	09/29/06
Review/Revision Date:	09/29/06

Page: 1 of 3

SECTION I - PRODUCT IDENTIFICATION

Trade Name: Krystal Klear Agra Mix
Chemical Description: Chelated mineral solution as listed below
Chemical Activity: B 0.05%, Cu 2%, Mn 2%, and Zn 2%

SECTION II - INGREDIENTS/ IDENTITY INFORMATION

CAS#	Common Name	Approx.% by Wt.
60-00-4	Ethylenediaminetetraacetic acid	30.00%
141-43-5	Monoethanolamine	18.00%
7646-85-7	Zinc Chloride	6.50%
7447-39-4	Copper Chloride	5.50%
7773-01-5	Manganese Chloride	5.00%
10043-35-3	Boric Acid	3.50%

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: >H₂O
Melting Point: N/Ap
Specific Gravity: 1.28 @65°F
pH:
Vapor Pressure(mm/hg): Not Established
Vapor Density(air=1): Not Established
Appearance And Odor: Odorless liquid

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point: Not Established
Flammable Limits: Not Established **LEL:** **UEL:**
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. Water stream may spread flames.

Special Fire Fighting Procedures: As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area. Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Contain any liquid run off.

Unusual Fire and Explosion Hazards: Not considered a fire hazard. When involved in a fire, does not contribute any unusual hazards.

SECTION V - STABILITY AND REACTIVITY DATA

Stability: This product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and is not sensitive to physical impact.

Conditions to Avoid: Contact with steel and aluminum produces hydrogen.

Incompatible Materials: Not available.

Hazardous Decomposition Products: Decomposition product is ammonium and nitrogen oxide.

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

Hazardous Combustion Products: None known.

SECTION VI - HAZARD(S) IDENTIFICATION

Route(s) of Entry: Inhalation, Ingestion and Dermal.

Emergency Overview: Not considered a hazardous product. Mildly Irritating to eyes.

Potential Health Effects: Effects of single overexposure: **Ingestion:** None known **Dermal:** None Known **Eyes:** May cause pain and slight temporary irritation. **Inhalation:** None known.
Effects of repeated overexposure: Not anticipated to cause any adverse effects.

Signs & Symptoms Of Exposure: Eye irritation

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication 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. If 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.

Skin: Immediately wash with soap and water for a minimum of 15 minutes. Wash clothing before reuse. Oils/ointments should not be used at this time. 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 or absorb onto absorbent material and package for disposal. Wash residue away with water and detergent. Do not contaminate drain. Wear appropriate personal protective gear during cleanup.

Handling and Storage Precautions: Store in a plastic or stainless steel container, well ventilated, dry place.

Waste Disposal Methods: In unused condition, this product is not considered to be a RCRA defined hazardous waste by 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 gloves selected with regard for use condition exposure potential.

Respiratory Protection: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations.

Eye Protection: Eye/face protection requirements vary depending upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be used for the particular use intended for this material. Use chemical safety glasses with side shields or splash proof goggles and face shield to prevent eye/face contact. Emergency eye wash must be readily accessible to work area.

Other Protection: Minimize breathing of vapor mist. Avoid contact with skin. Remove contaminated clothing; launder before reuse. Cleanse skin thoroughly after contact, before meals and end of work period.

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:	Krystal Klear Agra Mix		
D. O. T. Hazard Class:	Not regulated by D.O.T.	UN:	N/Ap
Label Requirement:	None	RQ:	N/Ap
Placard:	None	CAS:	Mixture
Packing Group:	N/Ap		

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.