



CHEMICAL & FERTILIZER CORPORATION

Material Safety Data Sheet

Product Name: KelpXpress™

Section 1 - Chemical Product and Company Identification

Product Name: KelpXpress™

Chemical Name: No applicable – plant extract

Common Name, Synonym: Plant extract

Material Uses: Liquid Fertilizer

Manufacturer/Manufactured For: Miller Chemical and Fertilizer Corporation

Phone (717) 632-8921 FAX (717) 646-1104 CHEMTREC (800) 424-9300 24 hours every day

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	%

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Primary Entry Routes: Eye and skin contact is the most likely exposure. Ingestion is possible. Contact with or inhalation of sprays may cause irritation to eyes, nasal and throat.

Target Organs: Eyes, Skin and respiratory tract

Potential Health Effects:

Inhalation: Spray may cause irritation to nose, throat, mucous membranes, coughing, or difficulty in breathing

Eye: May cause eye irritation.

Skin: May cause irritation

Ingestion: Large doses may cause nausea, vomiting, and stomach pain or cramps.

Acute Effects: Irritation

Chronic Effects: None known

Signs and symptoms of exposure: No data available.

Medical Conditions Aggravated by Long-Term Exposure: None known

Section 4 - First Aid Measures

Eye Contact: Flush gently and thoroughly for 15 minutes with large amounts of clean water, occasionally lifting upper and lower lids. Seek medical attention if irritation persists

Skin Contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If redness or rash develops and persists, seek medical attention. Wash or clean contaminated clothing and shoes before wearing again

Ingestion: **DO NOT INDUCE VOMITING.** Call a physician.

Inhalation: If respiratory symptoms develop, remove person to fresh air immediately. Begin artificial respiration or CPR (cardiopulmonary resuscitation) if required and seek medical attention as appropriate

Notes to Physician: None Known

Product Name **KelpXpress™**

Section 5 - Fire-Fighting Measures

Flash Point: Not determined

Autoignition Temperature: Not applicable

LEL/UEL: Not applicable

Extinguishing Media: Foam, dry chemical, carbon dioxide (CO₂), water spray, or sand/earth.

Hazardous Decomposition Products: Oxides of carbon

Fire-Fighting Instructions: Keep unauthorized personnel away. Wear full protective clothing and self-contained breathing apparatus. Stay upwind. Stop spill/release if it can be done without risk. Apply water spray to knock down and absorb fumes and vapors and cool affected containers. Control runoff waters. Ventilate closed spaces before entering. Always stay away from the ends of tanks

Fire-Fighting Equipment: Full protective clothing and self-contained breathing apparatus

Unusual Fire or Explosion Hazards: Evacuate people downwind from fire and control runoff water.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: ELIMINATE ALL SOURCES OF IGNITION. DIKE OR IMPOUND TO KEEP PRODUCT OUT OF SEWERS AND WATERCOURSES. ABSORB SPILL WITH INERT MATERIAL. SHOVEL INTO WASTE CONTAINERS.

Flush area with water, contain and remove cleanup liquid. Small amounts of spilled liquid may be absorbed using appropriate absorbent material. As conditions warrant, notify proper authorities, downstream sewer and water treatment operations, and other downstream users about potentially contaminated water

Section 7 - Handling and Storage

Handling Precautions: Keep containers closed when not in use. Keep away from sources of ignition. Do not contaminate food, water, feed by storage, or disposal. Follow good industrial hygiene practices.

Storage Requirements: Store at temperatures between 41°F and 104°F (5°C and 40°C), in well-ventilated areas away from heat or flame.

Regulatory Requirements: None Known

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Mechanical ventilation is preferred.

Administrative Controls:

Respiratory Protection: A NIOSA/MSHA approved respirator should be worn when dusting/misting occurs

Protective Clothing/Equipment: Chemical protective goggles should be used where splashing may occur. Wear rubber or neoprene gloves where splashing may occur. If irritation occurs, impervious clothing and gloves should be worn.

Safety Stations: An eyewash station and safety shower should be present in case of accidental exposure.

Contaminated Equipment: Any contained equipment should be cleaned thoroughly with soap and water.

Work/Hygienic practices: Prevent eating, drinking, tobacco usage, and cosmetic application to prevent exposure.

Comments: None

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Dark brown liquid/ moderate odor.

Odor Threshold: Not determined. .

Vapor Pressure: Not determined

Vapor Density (Air=1): Not determined.

Percent Volatile (by volume): Not determined.

Evaporation Rate: Not determined..

Formula Weight: Not Applicable

Boiling Point: > 212 °F

Melting Point: Not determined.

Density: 9.00-9.34 lb/gal @ 20 °C.

Specific Gravity (H₂O=1, at 4 °C): 1.08-1.12 @ 20 °C.

pH: 3.5-4.5

Solubility in water: Soluble

Section 10 - Stability and Reactivity

Stability: Stable

Hazardous Polymerization: None known

Chemical Incompatibilities: None known.

Product Name **KelpXpress™**

Conditions to Avoid: Excessive heat or cold, sources of ignition.

Hazardous Decomposition Products: At high temperatures product may release oxides of carbon

Section 11- Toxicological Information

Toxicity Data:*

Eye Effects: May cause irritation

Acute Dermal Effects: May cause skin irritation.

Acute Oral Effects: May cause irritation of the digestive tract.

Acute Inhalation Effects: May cause lung and throat irritation.

Chronic Effects: Not known

Carcinogenicity: Not known.

Mutagenicity: Not known.

Teratogenicity: Not known.

* See NIOSH, RTECS on listed ingredients for additional toxicity data.

Section 12 - Ecological Information

Ecotoxicity: This product is a liquid fertilizer. Large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread and runoff into drains, storm sewers, and ditches that lead to waterways.

Aquatic Toxicity: Not Known

Environmental Fate: Not known

Section 13 - Disposal Considerations

Disposal: If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Disposal Regulatory Requirements: Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Container Cleaning and Disposal: Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Product Name **KelpXpress™**

Section 14 - Transportation Information

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

WATER TRANSPORTATION

PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

AIR TRANSPORTATION

PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

OTHER AGENCIES:

SECTION 14 NOTES:

This product is not considered a hazard

Section 15 - Regulatory Information

EPA Regulations:

Reportable Quantity –CERCLA: Not applicable
SARA Title III (EPCRA): Not applicable
RCRA Waste Code: Not applicable

State Regulations:

CA Proposition 65: Not applicable

EPA National Response Center (800) 424-8802

Section 16 - Other Information

Preparation Date: 02-24-12

Prepared By: Compliance Officer

Revision Date:

Revision Notes:

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET (“MSDS”) RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE “PRODUCT”). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS MSDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATIONS OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO ACCURACY, CORRECTNESS OR COMPLETENESS, AND NEITHER MILLER CHEMICAL AND FERTILIZER CORPORATION, NOR ITS MARKETING AFFILIATES (EACH, A “SELLER”) ASSUME ANY LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON SAME.