



Material Safety Data Sheet

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Product Name: Leaf Act® CROP COMPLETE 5-5-41

MSDS Number: MIL303

Section 1 - Chemical Product and Company Identification

Product Name: Leaf Act® Crop Complete 5-5-41

Chemical Name: Mixture of inorganic and organic salts

Common Name, Synonym: Soluble Fertilizer

Material Uses: Agricultural Fertilizer

Manufactured For: Western Farm Service, Inc., P. O. Box 1168, Fresno, CA 93715-1168

Phone (559) 436-2800 - 8:00 am to 5:00 pm Pacific Time- Monday through Friday FAX (559) 436-2953

CHEMTREC (800) 424-9300 24 hours every day

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	%
Potassium Phosphate	7778-77-0	
Potassium Sulfate	7778-80-5	
Potassium Nitrate	7757-79-1	
Ascophyllum nodosum Kelp	NA	
Magnesium Sulfate	7487-88-9	
Copper EDTA	54453-03-1	
Iron EDTA	15708-41-5	
Manganese EDTA	15375-84-5	
Zinc EDTA	15954-98-0	
Sodium Borate	1330-43-4	
Ammonium Molybdate	13106-76-8	

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

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: Seek medical attention immediately. If immediate help is not available, and person is conscious, give large amounts of water to drink and make person vomit. Do not force an unconscious person to drink or vomit

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

Section 5 - Fire-Fighting Measures

Flash Point: Not Flammable

Autoignition Temperature: Not applicable

LEL/UEL: Not applicable

Extinguishing Media: Dry chemical, carbon dioxide (CO₂), or water spray

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

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: It is advisable to wash promptly if skin becomes contaminated; before eating, drinking, using tobacco, or chewing gum; before using toilet facilities; and at the end of the work shift before leaving the worksite

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: None required under normal conditions

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: Not Known

Contaminated Equipment: Not Known

Comments: None

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance and Odor: Blue/Green powder/Musty odor

Odor Threshold: Not Known

Vapor Pressure: Not known

Vapor Density (Air=1): Not known

Percent Volatile (by volume): Negligible

Evaporation Rate: Negligible

Formula Weight: Not Applicable

Density: 63-67 lbs./ft³

Specific Gravity (H₂O=1, at 4 °C): Not applicable

pH (1% solution): 5-6.5 @ 20c

Solubility in water: Soluble

Section 10 - Stability and Reactivity

Stability: Stable

Hazardous Polymerization: None Known

Chemical Incompatibilities: None known

Conditions to Avoid: Strong Oxidizers, High Temperatures

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: not known
Acute Oral Effects: not known
Acute Inhalation Effects: not known

Chronic Effects: Not known
Carcinogenicity: None found for this product
Mutagenicity: None found for this product
Teratogenicity: None found for this product

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

Section 12 - Ecological Information

Ecotoxicity: This product is a soluble 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

Section 14 - Transportation Information

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: THIS PRODUCT IS NOT REGULATED BY D.O.T.

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:

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: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

EPA National Response Center (800) 424-8802

Section 16 - Other Information

Preparation Date: 06-27-08

Prepared By: Miller Chemical & Fertilizer Corporation

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 (WESTERN FARM SERVICE, INC.) NOR ITS MARKETING AFFILIATES (EACH, A “SELLER”) ASSUME ANY LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON SAME.