



Safety Data Sheet
CONKLIN COMPANY, INC.

Date Prepared: 9/11/15

SDS Number: 2068

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Kip Cullers' Nutrient Compass	General Use Foliar Fertilizer
Manufacturer's Name Conklin Company	Emergency Telephone Numbers Health: (888) 786-0974 Transport: (800) 424-9300
Address (Number, Street, City, State and Zip) 551 Valley Park Drive Shakopee, MN 55379	Phone Number for Additional Information (952) 445-6010 Website: www.conklin.com

SECTION 2 - HAZARDS IDENTIFICATION

Signal Word:	Warning
Hazard statements:	Harmful if swallowed or inhaled. Causes eye and skin irritation.

Precautions: Avoid breathing mist, vapors and spray.
Use only outdoors or in a well ventilated area.
Do not eat, drink or smoke when using this product.
Wear gloves, safety glasses or goggles, and long-sleeved clothing when handling.
Wash hands thoroughly after handling.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice or attention.
If swallowed: Call a physician or Poison Control Center if you feel unwell.
Rinse Mouth.
If on skin: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice or attention.
Immediately take off all contaminated clothing and wash it before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.

Potential Health Effects, Based on Individual Components (May Vary Among Individuals)

Eye: Liquid, fumes, mists, or vapors may cause irritation.
Skin: May cause irritation.
Ingestion: May be harmful if swallowed.
Inhalation: May cause moderate irritation to respiratory tract (mouth, nose, throat and lungs).

Medical conditions aggravated by exposure:

None known

Chronic effects: Not known to contain component(s) at 0.1% or greater listed as a carcinogen or possible carcinogen.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percent by Weight
Ethylenediaminetetraacetic acid, manganese dipotassium complex	68015-77-0	10% to 20%
Fructose	57-48-7	10% to 20%
Glucose	50-99-7	5% to 10%
Dipotassium hydrogen phosphate	7758-11-4	5% to 10%
Urea	57-13-6	1% to 5%
Potassium Thiosulfate	10294-66-3	1% to 5%
Ethylenediaminetetraacetic acid, zinc diammonium complex	67859-51-2	1% to 5%
Fulvic Acid	479-66-3	1% to 5%

See Section 8 for exposure guidelines.

SECTION 4 - FIRST AID MEASURES

EYES: Immediately flush the contaminated eye(s) with clean, lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens until after flushing is complete. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

SKIN: Remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts). Flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, repeat flushing. Obtain medical advice. Completely decontaminate clothing, shoes, and leather goods before reuse, or discard.

INGESTION: Never give anything by mouth to a victim who is rapidly losing consciousness, is unconscious, or is convulsing. Have victim rinse mouth thoroughly with water. Do NOT induce vomiting. Have victim drink a glass of water (2 to 8 ounces or 60 to 240 mL). Immediately obtain medical attention.

INHALATION: If symptoms are experienced, remove source of contamination or move victim to fresh air. Obtain medical advice.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: > 200 °F

EXINGUISHING MEDIA: Water fog or spray, dry chemical, foam, carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Use water, dry chemical, CO₂, or foam, as appropriate for surrounding fire. Use water spray to cool containers. Firefighters should use approved self-contained breathing apparatus and full turn-out (Bunker) gear when fighting fires involving chemicals, to protect against possible toxic fumes or vapors. Cool and use caution when approaching fire-exposed containers. Organic material suspended in water. Organic material may burn if all of the water has boiled off.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURE: Use personal protection recommended in Section 8. Ventilate area thoroughly. Stay upwind. Isolate area from unprotected personnel. Dike to prevent spill from spreading. Collect with compatible absorbent material and place in metal container with tight fitting cover. Floor may be slippery - use care and clean thoroughly. Keep out of sewer, septic system, ground water, and open waters. Notify federal, state and local authorities, as applicable.

SECTION 7 - HANDLING AND STORAGE

STORAGE TEMPERATURE: Store above 40 °F and below 100 °F.

HANDLING AND STORAGE PRECAUTIONS: Do not freeze. Use personal protection recommended in Section 8. Open containers slowly in case of pressure accumulation. Protect from direct sunlight. Store in dry, cool, ventilated area in tightly closed containers out of the reach of children. Do not store on side. Avoid creasing or impacting container sidewalls. Empty containers may be hazardous. Do not eat, drink, or smoke in chemical use or storage areas. Wash hands after handling and before eating, drinking, or smoking. Do not rub eyes with soiled hands. See Section 10 for metals or other materials to avoid.

SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

ENGINEERING CONTROLS: Provide sufficient general and local exhaust ventilation to maintain safe exposure levels. Take measures to minimize exposure. Provide a source of clean water for flushing eyes and skin.

EYE PROTECTION REQUIREMENTS: Use ANSI-approved eye protection (e.g. safety glasses, goggles), as required by work conditions. Use ANSI-approved chemical splash goggles and face shield if splashing may occur.

SKIN PROTECTION REQUIREMENTS: Chemical-resistant gloves and clothing, as needed, to prevent skin contact. Wash hands before eating, drinking, or smoking.

RESPIRATORY PROTECTION: To protect against inhalation, a NIOSH-approved air-purifying respirator with organic vapor cartridges and dust/mist pre-filters may be permissible. Use a dust/mist filter or pre-filter if spraying. Use a positive pressure air-supplied respirator for unknown or uncontrolled situations, or when air-purifying respirators may not provide adequate protection.

AIRBORNE EXPOSURE LIMITS

Components	OSHA PEL/TWA	ACGIH TLV/TWA	STEL
Ethylenediaminetetraacetic acid, manganese dipotassium complex	(c) 5 mg/m ³		

Definitions:

- PEL = Permissible Exposure Limit
- TLV = Threshold Limit Value
- TWA = Time-weighted average (8 hour day)
- STEL = Short term exposure limit (15 minutes), no more than 60 min./day
- (c) = Ceiling (not to be exceeded under any condition)
- (s) = Skin

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid	Solubility in Water:	Miscible
Color: Clear to hazy brown	Specific Gravity (Water = 1):	1.33 - 1.35
Odor: Earthy	Evaporation Rate (Butyl Acetate = 1):	< 1
Boiling Range: > 212°F	Vapor Pressure (mm Hg):	Not determined
pH: 5.1 - 5.2	Vapor Density (Air = 1):	> 1

SECTION 10 – REACTIVITY

- Stability: Stable under anticipated storage and handling conditions.
- Hazardous Polymerization: Will not occur.
- Incompatibilities (Materials to Avoid): Avoid strong oxidizers and excessive heat.
- Hazardous Decomposition Products: Ammonia, carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides, sulfur oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product not tested as a whole. Refer to Section 3 for potential health effects.

SECTION 12 – ECOLOGICAL INFORMATION

Product not tested as a whole. Refer to Section 6 for information regarding accidental releases. Keep out of trash, water, sewer, and drainage systems, except when used as intended.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of contents and empty containers according to federal, state and local regulations. Keep out of trash, water, sewer, and drainage systems, except when used as intended. Do not reuse containers.

SECTION 14 - TRANSPORTATION INFORMATION

Not a DOT Hazardous Material.

SECTION 15 - REGULATORY INFORMATION

California Proposition 65 statement: This product does NOT contain chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

This product contains the following chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372): Ethylenediaminetetraacetic acid, zinc diammonium complex: 1% to 5%; Ethylenediaminetetraacetic acid, manganese dipotassium complex: 10% to 20%.

Regulated by the Department of Agriculture for storage, use, and leaks or spills.

SECTION 16 - OTHER INFORMATION

This document replaces the 3/14/14 version. Sections 9 updated to correct density.

The information contained in this Safety Data Sheet is based on data available to us from suppliers, and is believed to be true and correct; however, Conklin makes no warranty, express or implied, regarding the accuracy of this data or results obtained from the use of this product. Conklin and its employees assume no responsibility for injury or damage from the use of this product.