



**Safety Data Sheet
CONKLIN COMPANY, INC.**

Date Prepared: 8/31/18

SDS Number: 2003

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Amplify-D® with Micronutrients	General Use Seed Germination Aid
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:	Causes skin irritation and eye irritation. Avoid breathing dust. Contains crystalline silica which may cause cancer if inhaled.

Precautions: 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 on skin: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice or attention.
Take off contaminated clothing and wash it before reuse.

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

Eye: Dust or fibers may cause mechanical irritation.

Skin: May cause irritation.

Ingestion: May cause irritation to mouth, throat, and stomach.

Inhalation: May cause irritation to respiratory tract (mouth, nose, throat and lungs).

Medical conditions aggravated by exposure:

None known

Chronic effect Carcinogenicity: Contains Crystalline silica (quartz).
See Section 15 for California Proposition 65 information.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percent by Weight
Talc, (Magnesium silicate hydrate)	14807-96-6	30% to 40%
Disodium Phosphate, Anhydrous	7558-79-4	10% to 20%
Polysaccharide	Proprietary	10% to 20%
Adenosine 5 Monophosphate	61-19-8	10% to 20%
Iron sulfate	7720-78-7	5% to 10%
Zinc Sulfate	7733-02-0	5% to 10%
Chlorite	1318-59-8	1% to 5%
Monosodium Phosphate, Anhydrous	7558-80-7	1% to 5%
Calcium Carbonate	1317-65-3	1% to 5%
Manganese Sulfate	7785-87-7	1% to 5%
White Mineral Oil	8042-47-5	1% to 5%

See Section 8 for exposure guidelines.

SECTION 4 - FIRST AID MEASURES

EYES: Do not rub eye(s). Let the eye(s) water naturally for a few minutes. Have victim look right and left, then up and down. If particle/dust does not dislodge, gently flush with clean, lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelid(s) open. If irritation persists, immediately obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye.

SKIN: No health effects expected. If irritation does occur, flush with lukewarm water, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

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: Not applicable

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. This is an organic material that may burn.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURE: Use personal protection recommended in Section 8. Stay upwind. Isolate area from unprotected personnel. While controlling the generation of dust, collect and place in metal container with tight fitting cover. 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: Keep dry. Avoid creating dust.

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
Talc, (Magnesium silicate hydrate)* *as dust	TWA 20 mppcf		
Iron sulfate	none		
Calcium Carbonate* *as dust	TWA 10 mg/m ³ (total) TWA 5 mg/m ³ (resp)		
Manganese Sulfate* *as dust	(c) 5 mg/m ³		
White Mineral Oil	TWA 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: Powder	Solubility in Water:	24.4% soluble
Color: Medium blue	Specific Gravity (Water = 1):	Not available
Odor: None	Evaporation Rate (Butyl Acetate = 1):	Not applicable
Boiling Range: Not Applicable	Vapor Pressure (mm Hg):	Not applicable
pH: 5.2 @ 10%	Vapor Density (Air = 1):	Not applicable

SECTION 10 – REACTIVITY

Stability: Stable under anticipated storage and handling conditions.

Hazardous Polymerization: Will not occur.

Incompatibilities (Materials to Avoid): Avoid strong oxidizers, such as chlorine, open flames, sparks and excessive heat.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, phosphorus oxides, nitrogen oxides and metal 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

Recycle or 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.

SECTION 14 - TRANSPORTATION INFORMATION

Not a DOT Hazardous Material.

SECTION 15 - REGULATORY INFORMATION

California Proposition 65 statement:

WARNING: This product can expose you to chemicals including which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

This product contains the following chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372): Zinc Sulfate: 5% to 10%; Manganese Sulfate: 1% to 5%.
CERCLA RQ = 5000 lbs (Disodium Phosphate, Anhydrous); CERCLA RQ = 1000 lbs (Iron sulfate).
Regulated by the Department of Agriculture for storage, use, and leaks or spills.

SECTION 16 - OTHER INFORMATION

This document replaces the 1/20/14 version. All Safety Data Sheets reviewed for composition and regulatory status. Sections 2 and 3 have been updated.

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.