



UpLink– Safety Data Sheet (SDS)

Section 1: Product and Company Identification

PRODUCT IDENTITY: 0-0-5, Mo 0.5% Derived from Potassium Carbonate, Potassium Hydroxide, Sodium Molybdate
PRODUCT ID #: UpLink
CAS#: Mixture
COMMON NAME: UpLink
CHEMICAL DESCRIPTION: Fertilizer and/or soil conditioner solution
Product Use/Restrictions: See product label for recommendations, uses, rates, and warranty.

Manufactured For:
HELM Agro US, Inc.
401 E. Jackson St., Suite 1400
Tampa, FL 33602
Phone: 813.621.8846
info@helmagro.com

Emergency contact: CHEMTREC 1-800-424-9300 (24 hours)
Non-emergency contact: HELM Agro US, Inc. 813.621.8846

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Section 2: Hazards Identification

This product is not hazardous as defined by the OSHA Hazard Communication Standard.

Section 3: Composition/Information on Ingredients

Name	CAS or EC No.	Concentration	Classification
Dipotassium hydrogen citrate	EC 222-775-6 CAS 3609-96-9	< 5%	Eye Irrit 2 H319
1,2-benzisothiazolin-3-one (preservative)	EC 220-120-9 CAS 2634-33-5	< 0.03%	Acute Tox 4 H302, Skin Irrit 2 H315, Skin Sens 1 H317, Eye Dam 1 H318, Aquatic Chronic 3 H 412
Non-hazardous components		To 100%	

GHS cut-off value or GHS concentration limit is the minimum concentration for a hazardous substance to trigger the classification of a mixture containing it. They are mainly expressed as % thresholds and are primarily used for mixture classification under GHS. GHS cut-off thresholds indicate that this product is not hazardous as defined by the OSHA Hazard Communication Standard.

Section 4: First-aid Measures

Skin or Eye Contact, Ingestion, or Inhalation: This product is not classified as hazardous according to GHS. It is nonetheless advised that user wear personal protective attire, including goggles and gloves, when handling, diluting, dispensing, or applying this product. Do not get in eyes, on skin, or on clothing. Avoid breathing splash, sprays, or mists generated from this material. Avoid ingestion. Wash thoroughly after handling this product. If spilled on skin or splashed in eyes, rinse affected area for several minutes. No known hazard from inhalation; if discomfort following exposure, remove self to fresh air and seek medical advice. Consult a medical professional if ingested. In the event of a spill, clean-up promptly using trained personnel and pre-planned procedures or contact CHEMTREC at 1-800-424-9300 for assistance.

Section 5: Fire-fighting Measures

Extinguishing media:	Non-flammable water-based product. Will not support combustion. Use extinguishing media suitable for surrounding area.
Exposure hazards:	No special hazards designated.
Advice for fire fighters:	None provided.

Section 6: Accidental Release Measures

Personal precautions:	No specific risk from spillage but may cause slip hazard. In case of large spill (> 10 liters) exclude unnecessary personnel. Open doors and windows to ensure good ventilation.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-up procedures:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal. Refer section 8 and 13.

Section 7: Handling and storage

Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.
Storage conditions:	Store in cool, well-ventilated area. Keep container tightly closed. Refer label for storage precaution.

Section 8: Exposure controls/Personal protection

Exposure limits:	No specific exposure limits apply.
Engineering controls:	Normal room ventilation is expected to be adequate.
Respiratory protection:	Not required
Hand Protection:	For industrial or professional use, or if prolonged contact is expected, then suitable gloves may be required. Butyl rubber or nitrile rubber are considered suitable, but glove manufacturer recommendations should always be checked.
Eye protection:	If being handled in bulk, safety glasses or goggles may be appropriate.
Skin protection:	For industrial or professional use, or if prolonged contact is expected, then suitable protective clothing should be worn. Remove protective clothing when contaminated and wash before reuse.
Environmental Exposure Controls:	Not determined.

Section 9: Physical and chemical properties

Appearance:	Brown water-based liquid
Odor:	No specific odor. Musty
Odor threshold:	Not known
pH:	Specified pH 6.7 - 7.3
Melting point:	Will remain liquid at 0 C. Freezing point - 2 C.
Boiling point:	Water component will boil off at 100 C
Flashpoint:	Nonflammable
Evaporation rate:	No volatile components
Flammability:	Non-flammable
Upper/lower flammability limits:	None
Vapor pressure:	Will have vapor pressure of water
Vapor density:	Not applicable
Relative density:	1.16 - 1.3
Solubility in water:	Soluble in water
Solubility in other solvents:	Contains inorganic and organic components with variable solubility
Partition coefficient:	Organic components not considered accumulative
Autoignition temperature:	Not known
Decomposition temp.:	No decomposition when used under normal conditions
Viscosity:	Highly viscous cream
Explosive properties:	Not classified as explosive
Oxidizing properties:	Not classified as oxidizing

Section 10: Stability and reactivity

Reactivity:	Not considered to be reactive.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	None expected.
Conditions to avoid:	Avoid exposure to high temperatures > 45 C (113 F)
Incompatible materials:	Avoid contact with strong oxidizers.
Hazardous decomposition products:	None known.

Section 11: Toxicological information

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

Acute toxicity	Based on components, does not present an acute toxicity hazard
Skin corrosion/irritation:	Not classified irritating to skin.
Serious eye damage/irritation:	May cause mild irritation Based on self-classification of key ingredients by suppliers
Respiratory/skin sensitization:	No ingredient known to be potentially sensitizing above thresholds of concern. Contains 1,2 benzisothiazolin-3-one (preservative)
Germ cell mutagenicity:	No ingredient known to be potentially mutagenic
Carcinogenicity:	No ingredient known to be potentially carcinogenic
Reproductive toxicity:	No ingredient known to be potentially toxic for reproduction
STOT-single exposure:	No ingredient known to have an adverse effect
STOT-repeated exposure:	No ingredient known to have an adverse effect
Aspiration hazard:	Not an aspiration hazard.

Section 12: Ecological information

Toxicity:	Based on components, not hazardous to the environment Toxicity to fish: estimated LC50: > 100 mg/l, 96 Toxicity to invertebrates: estimated EC50: > 100 mg/l, 48 h Toxicity to algae: estimated EC50: > 100 mg/l, 72 h,
Degradability:	Organic components are considered rapidly biodegradable. No organic components are considered persistent
Bioaccumulative potential:	Organic components are readily metabolized and not expected to bioaccumulate.
Mobility in soil:	Organic components will quickly degrade
Results of PBT & vPvB assessment:	Organic components are not considered to be PBT or vPvB.
Other adverse effects:	None known

Section 13: Disposal considerations

Follow local, and/or State, and/or Federal ordinances or laws regarding disposal requirements.

Section 14: Transportation information

This product does not require a classification for transport.

Section 15: Regulatory information

As applicable per U.S. States under Commercial Fertilizer License, and/or Permit, and/or Registration, and/or attendant product Listing, Certification, Registration, or otherwise approval, or sold as under self-declared product compliance. No specific chemical safety assessment has been performed.

Section 16: Other information

WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY: The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of the directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

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