

SECTION 1: IDENTIFICATION

Product Name: Growforce Agri Max

Recommended Use: Fertilizer; See product label for a complete list of uses and use sites. **Restrictions on Use:** See product label for any restrictions on the use of this product.

Chemical Name: N/A - Mixture

Manufactured for: Vivid Life Sciences, LLC

P.O. Box. 41632

Minneapolis, MN 55441

For Medical Exposure Concerns, Contact the Poison Control Center: 1-800-222-1222

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: Black liquid. May cause moderate but temporary eye and skin irritation

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Eye Damage/Irritation	Category 2A
Skin Corrosion/Irritation	Category 2



Signal Word: WARNING

Hazard Statement(s): Causes serious eye irritation.

Causes skin irritation.

Precautionary Statement(s): Prevention: Wash hands thoroughly after handling. Wear eye protection

and protective gloves.

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/attention.

IF ON SKIN: Wash with plenty of water and soap. No specific treatment available. If skin irritation occurs: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

Storage: No statement required. **Disposal:** No statement required.

The following percentage of the mixture consists of components with unknown hazards regarding the acute toxicity:

100.0% Acute oral toxicity100.0% Acute dermal toxicity100.0% Acute inhalation toxicity

100.0% Eye irritation 100.0% Skin irritation 100.0% Skin sensitization

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SECTION 3: COMPOSTION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Manganese EDTA	15375-84-5	<0.5%
Iron EDTA	15708-41-5	<0.5%
Zinc EDTA	14025-21-9	<0.5%
Copper EDTA	14025-15-1	<0.1%
Boric Acid	10043-35-3	<0.03%

^{*}Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES			
IF IN EYES:	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.		
IF ON SKIN:	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.		
IF INHALED:	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.		
IF INGESTED:	Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.		
Note to Physician: T	reat symptomatically		
Most important symptoms/effects, acute and delayed: Redness and itching of the eyes and skin.			

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Water fog, foam, dry chemical, carbon dioxide (CO2), water spray

Media:

Unsuitable Extinguishing

Media:

None known

Hazardous Combustion Products:

Thermal decomposition may include toxic and hazardous oxides of carbon,

Wear NIOSH/MSHA approved self-contained breathing apparatus and full

nitrogen, copper, manganese and zinc.

Special Protective

Equipment & Precautions:

Unusual Fire & Explosion Hazards:

Environmental

bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

Closed containers may explode from vapor expansion in high heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for personal protection equipment.

Precautions:

Methods for Clean-up:

Do not allow spilled product to enter sewers or waterways.

Methods for Containment: Contain spilled product by diking area with sand or earth.

Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a

container for disposal. Do not place spilled material back in original container.

Other Information: None known



SECTION 7: HANDLING AND STORAGE

Ensure adequate ventilation during handling and use. Immediately clean up spills that occur

Handling: during handling. Keep containers closed when not in use. Practice good hygiene after using this

material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Store in a secured area away from children, feed and food products. Store in original container

only and in a cool, well-ventilated dry place above the minimum storage temperature.

Storage Temperature (Min/Max): Not determined

Product Incompatibilities: Strong bases, acids and oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Storage:

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Nuisance particulate (liquefied mist)		10 mg/m ³ TWA	
Copper dusts and mists (as Cu)	1 mg/m3	1 mg/m3	1 mg/m3

Engineering Controls: Provide general or local exhaust ventilation systems to maintain airborne

concentrations below OSHA PELs or other specified exposure limits. Local exhaust

ventilation is preferred.

For most well-ventilated conditions, no respiratory protection should be needed. **Respiratory Protection:**

If airborne concentrations exceed permissible levels or if a pre-existing

respiratory condition exists, use a NIOSH approved air-purifying respirator with

cartridges/canisters approved for general particulates.

Wear chemical goggles or safety glasses and full face shield. Contact lenses are **Eye Protection:**

not protective eye devices.

Wear chemically protective gloves. **Protective Gloves:**

Other Protective Clothing: Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact. **General Safety Measures:** Never eat, drink, nor use tobacco in work areas. Practice good hygiene after

using this material, especially before eating, drinking, smoking, using the toilet,

or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Upper/Lower Flammability Limits: Appearance: Black liquid Not determined Odor: Not determined Vapor Pressure: Not determined **Odor Threshold:** Not determined Vapor Density: Not determined **Relative Density:** pH: Not determined 1.31 - 1.34Solubility (water): Soluble **Melting /Freezing Point:** Not determined **Boiling Point/Range:** >212°F (>100°C) **Partition Coefficient:** Not determined **Flash Point:** Not combustible **Auto-ignition Temperature:** Not determined Not determined **Evaporation Rate: Decomposition Temperature:** Not determined Flammability: Not applicable Viscosity: Not determined

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SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Will not occur

Reactions:

Conditions to Avoid: Excessive heat

Incompatible Materials: Strong bases, acids and oxidizers.

Hazardous Decomposition Thermal decomposition may include toxic and hazardous oxides of carbon,

Products: nitrogen, copper, manganese and zinc.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eye contact, Skin contact, Inhalation, Ingestion

Symptoms of Exposure: Respiratory irritation
Oral LD₅₀: Not determined
Dermal LD₅₀: Not determined
Inhalation LC₅₀: Not determined

Eye Irritation/Damage: Anticipated to cause moderate but temporary eye irritation based upon

component data.

Skin Corrosion/Irritation: Anticipated to cause moderate but temporary skin irritation based upon

component data.

Skin Sensitization: Not anticipated to be a skin sensitizer based upon component data.

Chronic/Sub-chronic

Toxicity:

No data available

Mutagenicity:No data availableReproductive Toxicity:No data availableNeurotoxicity:No data availableTarget Organs:Respiratory tractAspiration Hazard:No data available

Carcinogenicity:

Chemical Name	ACGIH	IARC	NTP	OSHA
None listed				

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

Fish Toxicity:
Aquatic Invertebrate Toxicity:
Not determined

ENVIRONMENTAL

EFFECTS:

Persistence and Degradability:Not determinedBioaccumulation:Not determinedMobility:Not determinedOther Adverse Effects:Not determined

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with applicable Federal, state and local laws and

regulations.

Container Disposal: Triple rinse and recycle the container or dispose of in accordance with Federal, state

and local laws and regulations.

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the

RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORTATION INFORMATION

DOT This product is not regulated by the U.S. Department of Transportation as a hazardous material

(**Ground**): for ground shipment.

IMDG
This product is not regulated by the IMDG as a hazardous material for shipment by sea.

(Sea): IATA

(Air): This product is not regulated by the IATA as a hazardous material for shipment by air.

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: All components are either listed or exempt from listing on the TSCA inventory.

SARA Title III Information:

Section 302 – Extremely hazardous substances: None listed

Section 311/312 – Hazard Categories: Immediate (acute), Delayed (chronic)
Section 313 – This product contains a chemical or chemicals which are subject to the reporting

requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %
Zinc compounds	N982	<0.5%
Manganese compounds	N450	<0.5%
Copper compounds	N100	<0.1%

CERCLA – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished
			Product
None listed			

CALIFORNIA PROPOSITION 65:

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Zinc compounds	X		X
Manganese compounds	X		X
Copper compounds	X		X
Potassium thiosulfate	X		X
Sodium molybdate	X		X

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SECTION 16: OTHER INFORMATION

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