

## Section 1. Identification

### 1.1. Product identifier

**Product Identity** Ful-Grow ULTRA

**Alternate Names** Ful-Grow ULTRA

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** See Technical Data Sheet.

### 1.3. Details of the supplier of the safety data sheet

**Company Name** HGS BioScience  
709 Eastport Road  
Jacksonville, FL 32218

### Emergency

**CHEMTREC (USA)** (800) 424-9300

**24 hour Emergency Telephone No.** CHEMTREC (USA) (800) 424-9300

**Customer Service:** 904-329-1012

## Section 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Skin Corr. 1B;H314 Causes severe skin burns and eye damage.

Eye Dam. 1;H318 Causes serious eye damage.

### 2.2. Label elements



**Danger**

H314 Causes severe skin burns and eye damage.

#### [Prevention]

P260 Do not breathe dust, fume, mist, vapors or spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

#### [Response]

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.

P304+340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.



P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER, doctor or physician.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P363 Wash contaminated clothing before reuse.

**[Storage]**

P405 Store locked up.

**[Disposal]**

P501 Dispose of contents or container in accordance with local and national regulations.

### Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations               | Weight % | GHS Classification  | Notes |
|--|----------|---|-------|
| Fulvic Acid<br>CAS Number: 479-66-3            | 75 - 100 | Skin Irrit. 2;H315<br>Eye Irrit. 2;H319   | ----  |
| Ecklonia maxima<br>CAS Number: EC no 921-943-2 | 5 - 10   | Not Classified  | ----  |
| Potassium hydroxide<br>CAS Number: 1310-58-3   | 1 - 5    | Acute Tox. 4;H302<br>Skin Corr. 1A;H314: C $\geq$ 5 %<br>Skin Corr. 1B;H314: 2 % $\leq$ C < 5 %<br>Skin Irrit. 2;H315: 0.5 % $\leq$ C < 2 %<br>Eye Dam. 1;H318: > 2 %<br>Eye Irrit. 2;H319: 0.5 % $\leq$ C < 2 %<br>Met. Corr. 1;H290 | ----  |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

### Section 4. First aid measures

#### 4.1. Description of first aid measures

**General**

In all cases of doubt, or when symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.

**Inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Eyes**

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**Ingestion**

Rinse mouth. Dilute the stomach contents by giving large amounts of water or milk.



#### 4.2. Most important symptoms and effects, both acute and delayed

|                 |  |
|-----------------|--|
| <b>Overview</b> | Ingestion and Eye contact may cause irritation. Skin contact and ingestion are not considered harmful or dangerous. Treat symptomatically. Check section 2.2 (GHS Label Elements) for further details. |
| <b>Eyes</b>     | Causes serious eye damage.   |
| <b>Skin</b>     | Causes severe skin burns and eye damage.   |

### Section 5. Fire-fighting measures

#### 5.1. Extinguishing media

Use media appropriate for surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Do not breathe dust, fume, mist, vapors or spray.

#### 5.3. Advice for fire-fighters

Substance is not considered a fire or explosion hazard.

**ERG Guide No.** 154

### Section 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### 6.3. Methods and material for containment and cleaning up

Triple rinse containers before disposal. If recycling, replace cap and return clean container to collection point. Empty containers can be disposed of in accordance with local regulations.

**Personal Precautions:** The usual precautions for handling organic bio-stimulants should be observed.

**Environmental Precautions:** No environmental hazards are associated with this product. Prevent from entering sewers, waterways or low areas.

**Spill Procedure:** Take steps to control product discharge into the environment. Notify appropriate authorities if required and arrange for the recovery of spilled material.

**Methods for Clean-up:** Dilute and wash away with large amounts of water.

**Additional Advice:** Dispose of in accordance with local regulations.

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

Store out of sunlight. Suitable for general storage areas. Keep product container closed and avoid high temperatures. Check section 2.2 (GHS Label Elements) for further details. - [Prevention]

### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: No data available.

Check section 2.2 (GHS Label Elements) for further details. - [Storage]

### 7.3. Specific end use(s)

No data available.

## Section 8. Exposure controls / personal protection

### 8.1. Control parameters

| CAS No.         | Ingredient           | Exposure |                              |
|-----------------|----------------------|----------|------------------------------|
|                 |                      | Source   | Value                        |
| 479-66-3        | Fulvic Acid          | OSHA     | No Established Limit         |
|                 |                      | ACGIH    | No Established Limit         |
|                 |                      | NIOSH    | No Established Limit         |
| 1310-58-3       | Potassium hydroxide. | OSHA     | No Established Limit         |
|                 |                      | ACGIH    | Ceiling: 2 mg/m <sup>3</sup> |
|                 |                      | NIOSH    | C 2 mg/m <sup>3</sup>        |
| EC no 921-943-2 | Ecklonia maxima      | OSHA     | No Established Limit         |
|                 |                      | ACGIH    | No Established Limit         |
|                 |                      | NIOSH    | No Established Limit         |

### 8.2. Exposure controls

**Respiratory** Not required if using the product outside in the fresh air. If using in an enclosed area, make sure there is good ventilation.

**Eyes** It is recommended that eye protection be worn when spraying.

**Skin** Safety goggles, coveralls and protective footwear are recommended when handling bulk quantities of the product. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

**Engineering Controls** The usual precautionary measures for handling chemicals should be observed.

**Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details.



## Section 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |  |
|--|--|
| <b>Appearance</b>                                      | Color: Golden Orange<br>Physical State: Liquid   |
| <b>Odor</b>  | Characteristic   |
| <b>Odor threshold</b>                                  | Not determined   |
| <b>pH</b>  | Not Measured   |
| <b>Melting point / freezing point</b>                  | Not Measured   |
| <b>Initial boiling point and boiling range</b>         | Not Measured   |
| <b>Flash Point</b>                                     | Not Measured   |
| <b>Evaporation rate (Ether = 1)</b>                    | Not Measured   |
| <b>Flammability (solid, gas)</b>                       | Not Applicable   |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> Not Measured<br><b>Upper Explosive Limit:</b> Not Measured |
| <b>Vapor pressure (Pa)</b>                             | Not Measured   |
| <b>Vapor Density</b>                                   | Not Measured   |
| <b>Relative Density</b>                                | Not Measured   |
| <b>Solubility in Water</b>                             | Soluble  |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Not Measured   |
| <b>Auto-ignition temperature</b>                       | Not Measured   |
| <b>Decomposition temperature</b>                       | Not Measured   |
| <b>Viscosity (cSt)</b>                                 | Not Measured   |
| <b>VOC Content</b>                                     |  |
| <b>Density</b>   | 8.4 lbs/gal  |

### 9.2. Other information

No other relevant information.

## Section 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.



**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

No hazardous decomposition data available.

**Section 11. Toxicological information**

**Acute toxicity**

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Ingredient                          | Oral LD50, mg/kg          | Skin LD50, mg/kg   | Inhalation Vapor LC50, mg/L/4hr | Inhalation Dust/Mist LC50, mg/L/4hr | Inhalation Gas LC50, ppm |
|-------------------------------------|---------------------------|--------------------|---------------------------------|-------------------------------------|--------------------------|
| Fulvic Acid - (479-66-3)            | No data available.        | No data available. | No data available.              | No data available.                  | No data available.       |
| Ecklonia maxima - (EC no 921-943-2) | No data available.        | No data available. | No data available.              | No data available.                  | No data available.       |
| Potassium hydroxide. - (1310-58-3)  | 333.00, Rat - Category: 4 | No data available. | No data available.              | No data available.                  | No data available.       |

**Carcinogen Data**

| CAS No.         | Ingredient           | Source | Value  |
|-----------------|----------------------|--------|--|
| 479-66-3        | Fulvic Acid          | OSHA   | Regulated Carcinogen: No;  |
|                 |                      | NTP    | Known: No; Suspected: No;  |
|                 |                      | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
|                 |                      | ACGIH  | No Established Limit   |
| 1310-58-3       | Potassium hydroxide. | OSHA   | Regulated Carcinogen: No;  |
|                 |                      | NTP    | Known: No; Suspected: No;  |
|                 |                      | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
|                 |                      | ACGIH  | No Established Limit   |
| EC no 921-943-2 | Ecklonia maxima      | OSHA   | Regulated Carcinogen: No;  |
|                 |                      | NTP    | Known: No; Suspected: No;  |
|                 |                      | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
|                 |                      | ACGIH  | No Established Limit   |

| Classification                | Category | Hazard Description                       |
|-------------------------------|----------|--|
| Acute toxicity (oral)         | ---      | Not Applicable                           |
| Acute toxicity (dermal)       | ---      | Not Applicable                           |
| Acute toxicity (inhalation)   | ---      | Not Applicable                           |
| Skin corrosion/irritation     | 1B       | Causes severe skin burns and eye damage. |
| Serious eye damage/irritation | 1        | Causes serious eye damage.               |



|                           |     |                |
|---------------------------|-----|----------------|
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization        | --- | Not Applicable |
| Germ cell mutagenicity    | --- | Not Applicable |
| Carcinogenicity           | --- | Not Applicable |
| Reproductive toxicity     | --- | Not Applicable |
| STOT-single exposure      | --- | Not Applicable |
| STOT-repeated exposure    | --- | Not Applicable |
| Aspiration hazard         | --- | Not Applicable |

## Section 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

| Ingredient                          | 96 hr LC50 fish, mg/L   | 48 hr EC50 crustacea, mg/L | ErC50 algae, mg/L  |
|-------------------------------------|-------------------------|----------------------------|--------------------|
| Fulvic Acid - (479-66-3)            | No data available.      | No data available.         | No data available. |
| Ecklonia maxima - (EC no 921-943-2) | No data available.      | No data available.         | No data available. |
| Potassium hydroxide. - (1310-58-3)  | 80.00, Gambusia affinia | No data available.         | No data available. |

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## Section 13. Disposal considerations

### 13.1. Waste treatment methods

Dispose of in accordance with applicable environmental regulations, including local requirements. Avoid contamination of ponds, waterways or ditches.



### Section 14. Transport information

|                                    | DOT (Domestic Surface Transportation)            | IMO / IMDG (Ocean Transportation)                | ICAO/IATA  |
|------------------------------------|--|--|--|
| 14.1. UN number                    | UN1760   | UN1760   | UN1760   |
| 14.2. UN proper shipping name      | Corrosive liquids, n.o.s.                        | Corrosive liquids, n.o.s., (Potassium hydroxide) | Corrosive liquids, n.o.s., (Potassium hydroxide) |
| 14.3. Transport hazard class(es)   | DOT Hazard Class: 8<br>Sub Class: Not Applicable | IMDG: 8<br>Sub Class: Not Applicable             | Air Class: 8<br>Sub Class: Not Applicable        |
| 14.4. Packing group                | III  | III  | III  |
| 14.5. Environmental hazards        | Marine Pollutant: No;                            |  |  |
| 14.6. Special precautions for user | Not Applicable                                   |  |  |

### Section 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

#### Toxic Substance Control Act (TSCA)

| CAS Number      | Ingredient           | Toxic Substance Control Act (TSCA) | Comments | Status |
|-----------------|----------------------|------------------------------------|----------|--------|
| EC no 921-943-2 | Ecklonia maxima      | No                                 |          |        |
| 479-66-3        | Fulvic Acid          | No                                 |          |        |
| 1310-58-3       | Potassium hydroxide. | Yes                                |          | ACTIVE |

#### EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.





**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

|                                      |
|--------------------------------------|
| <b>Section 16. Other information</b> |
|--------------------------------------|

**Revision Date**                      04/24/2024

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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