

1. Identification

1.1. Product identifier

Product Identity Ful-Grow Gold 2X

Alternate Names Ful-Grow Gold 2X

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: HGS BioScience 904-329-1012

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Eye Dam. 2A;H319 Causes serious eye irritation.

2.2. Label elements



Warning

H319 Causes serious eye irritation.

[Prevention]

P264 Wash thoroughly after handling.

P280 Wear protective gloves, eye protection, face protection.

[Response]

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

P337+313 If eye irritation persists: Get medical advice or attention.

[Storage]

No GHS storage statements



[Disposal]

No GHS disposal statements

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 CAS Number: 0000479-66-3	Proprietary	Skin Irrit. 2;H315 Eye Irrit. 2;H319	----

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

Overview	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.
Eyes	Causes serious eye irritation.

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: When heated, emits highly toxic and corrosive fumes of hydrogen compounds and hydrogen gas.

5.3. Advice for fire-fighters

Substance is not considered a fire or explosion hazard.

ERG Guide No. ---

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.

Contain, dilute cautiously with water, and neutralize with soda ash or lime.

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: Metal, glass, stoneware, alkali and strong concentrated acids.

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

		Exposure	
CAS No.	Ingredient	Source	Value
0000144-33-2	Disodium hydrogen citrate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0000479-66-3	Fulvic Acid	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. Chemical impervious gloves required.
- 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

- | | |
|---|--|
| Appearance | Color: Golden Orange Physical State: Liquid |
| Odor | Slight Acid |
| Odor threshold | Not determined |
| pH | ~2.5 to 3.0 |
| Melting point / freezing point | Not Measured |
| Initial boiling point and boiling range | 212°F / 100°C |
| Flash Point | Not Measured |
| Evaporation rate (Ether = 1) | Not Measured |
| Flammability (solid, gas) | Not Applicable |
| Upper/lower flammability or explosive limits | Lower Explosive Limit: Not Measured
Upper Explosive Limit: Not Measured |
| Vapor pressure (Pa) | Not Measured |
| Vapor Density | Not Measured |
| Relative Density | 1.01 |



Solubility in Water	Soluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
Density	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

Excessive heat and open flame.

10.5. Incompatible materials

Metal, glass, stoneware, alkali and strong concentrated acids.

10.6. Hazardous decomposition products

When heated, emits highly toxic and corrosive fumes of hydrogen compounds and hydrogen gas.

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
Disodium hydrogen citrate - (144-33-2)	No data available	No data available	No data available	No data available	No data available
Fulvic Acid - (479-66-3)	No data available	No data available	No data available	No data available	No data available



Safety Data Sheet Ful-Grow Gold 2X

Revision
Date: 03/24/2023

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000144-33-2	Disodium hydrogen citrate	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
0000479-66-3	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

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	2A	Causes serious eye irritation.
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
Disodium hydrogen citrate - (144-33-2)	Not Available	Not Available	Not Available
Fulvic Acid - (479-66-3)	Not Available	Not Available	Not 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	Not Regulated	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable Sub Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable Sub Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
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) All components of this material are either listed or exempt from listing on the TSCA Inventory.

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.

Section 16. Other information

Revision Date 03/24/2023

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:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

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