

Product Name: GHF Grow 21+5+10
Date issued/revised: 28.07.25 1.1
Version:

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1. Identification of the substance/preparation and the company/undertaking

1.1. Product Identifier:

ProductName/Tradename: GHSC Grow 21+5+10
 UFI Code: PFG 00011: MX00-C05P-P00F-YVHA

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended Use: Water-soluble fertilizer for horticulture and agriculture **Not recommended uses:** Use by consumers

1.3. Details of the supplier of the safety data sheet

GHF Trading BV (PF Trading BV)
 49 Keienbergweg 1101EX Amsterdam
 The Netherlands
 Tel: +31(0)207163834
 Mail: wholesale@greenhousefeeding.com
 VAT: NL852326932B01

1.4. Emergency telephone number:

In case of an emergency call:

Austria	+4314066898
Belgium	+32022649636
Bulgaria	+35929301214
Czech Republic	+420267082236
France	+33383852192
Germany	+49-30-18412-0
Greece	+302107793777
Hungary	+36(1)4761135
Italy	+390668593726
Netherlands	+31887558561
Poland	+48422538400
Romania	+40215992300
Spain	+34917689800
Switzerland	145

2. Hazards identification

2.1.

Classification of the substance or mixture

The product is classified as hazardous pursuant to provisions set forth in (EC) Nr. 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with provisions of (EU) Regulation 2020/878.

Hazard classification and indication:

Serious eye injury or eye irritation - Category 2 - (H319)

2.2. Label Elements:

Pictogram:

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Word of warning: Warning

Hazard Statements:

H319 Causes serious eye irritation

Precautionary Statements - EU (§28, 1272/2008):

P 264 + P 265 Wash hands [and...] thoroughly after handling. Do not touch eyes

P 280 Wear protective gloves/protective clothing/eye protection/face protection.

P 305 + P 338 + P 337 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P 337 + P 317 If eye irritation persists: Get emergency medical help.

2.3. Other hazards that do not give rise to classification

In the event of a fire: Nitrogen oxides and ammonia may develop.

3. Composition/Ingredient Information

3.1. Substances

This product is a preparation/mixture

3.2. Preparations

Mixture of ammonium, magnesium and potassium salts, phosphate, sulfate, nitrate and trace elements.

CAS-No.	REACH-Reg.-No.	Name	EC No.	% by weight	Classification acc. to CLP No. 1272/2008	Specific concentration limit
7757-79-1	01-2119488224-35	Potassium nitrate	231-818-8	15 – 20	H 272	
6484-52-2	01-2119490981-27	Ammonium nitrate	229-347-8	20 – 29	H 272, H 319	H319: >=10
10043-35-3	01-2119486683-25	Boric acid	233-139-2	0 – 0.1	H 360 FD	>= 0.3 %
14025-15-1	01-2119963944-23	EDTA Copper Chelate	237-864-5	0 – 0.1	H 302, H 319	

Full text of H phrases: see section 16

Acute toxicity estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical Name	DL50 oral mg/kg	DL50 cutánea mg/kg	LC50 per inhalation - 4 Hours - Dust/Fog - mg/L
Ammonium nitrate; NH_4NO_3	2217	5000	88.8
Potassium nitrate; KNO_3	3015	5000	0.527
boric acid; H_3BO_3	2660	2000	2.12

Chemical Name	CAS-No	SVHC candidates
boric acid; H_3BO_3	10043-35-3	X

4. First aid measures

4.1. Description of first aid measures

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Inhalation

In the case of inhalation of aerosols/mists, consult a doctor if necessary. If you are not breathing, perform artificial respiration techniques. If symptoms persist, call a doctor. If the product is used as directed, dust is unlikely to be released. However, if prolonged inhalation of dust occurs, the affected person should be moved to a place in fresh air.

Skin contact

Wash the skin with soap and water. In case of skin irritation or allergic reactions, seek medical help.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting the upper and lower eyelids. Consult a doctor.

After ingestion

Clean your mouth with water and then drink plenty of water. Never give anything for mouth to an unconscious person. Do not induce vomiting without medical assistance.

Additional information

Decomposition fume breathing: Seek medical help and show this information!

4.2. Main symptoms and effects, acute and delayed

Symptoms: None known.

4.3. Indication of any medical care and special treatments to be given immediately

Note to medical staff: Treat symptoms.

5. Fire extinguishing measures

5.1. Means of extinguishing

Suitable extinguishing media: For surrounding fires: Water

Unsuitable Extinguishing media: Do not use dry chemicals or foams. CO₂ or Halon® may provide limited control.

5.2. Specific hazards arising from the substance or mixture

Thermal decomposition can cause an emission of irritating and toxic gases and vapors. The product does not burn by itself. May intensify fire; oxidizer

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5.3. Recommendations for firefighting personnel

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear

5.4. Special instructions

Avoid allowing the firefighting water into the ground water

6. Measures in the event of accidental spillage

6.1. Personal precautions, protective equipment, and emergency procedures

Personal precautions: Avoid dust formation; see sections 7 and 8. Ensure adequate ventilation. Wear protective gloves/clothing and eye/face protection.

For emergency responders: Use personal protection (see section 8) adequate ventilation. Use gloves and protective clothing and protective clothing to the eyes and the face. Prevent dust formation; See sections 7 and 8.

6.2. Environmental precautions

Do not allow product to enter groundwater or the sewer system.

6.3. Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

After spilling: Sweep up or vacuum up material and dispose of (see section 13) or reuse material.

6.4. Reference to other sections:

See section 7, 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Avoid contact with eyes and skin; avoid dust generation.

General hygiene considerations:

- Do not eat, drink, or smoke in work areas
- Wash your hands after handling
- Remove contaminated clothing

Fire Protection Tips

The product itself is non-combustible. In the event of a fire in the environment: Nitrogen oxides and ammonia may develop.

7.2. Safe storage conditions, including incompatibilities

Keep dry at room temperature in closed packages; Avoid contact with heat sources and oxidizing substances

Do not store with combustible substances, acids or bases.

Keep away from heat and direct sunlight.

7.3. Specific End Uses

Fertilizer for Horticulture

8. Exposure Control/Personal Protection

8.1. Exposure limits

No specific exposure limits

8.2. Personal protection

- Respiratory protection: Dust mask with P1 filter

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- Hand protection: Nitrile rubber (0.26 mm). Break through time. > 8 h.
 - Eye/face protection: Wear safety glasses with side shields (or goggles).
 - Skin and body protection: Lightweight protective clothing
- Handle in accordance with good industrial hygiene and safety practices.

8.3. Environmental exposure control

See sections 6 and 7.

9. Physical and chemical properties

9.1. Overview

Physical condition: Solid
Appearance: Powder
Color: off-white
Smell: none
Explosive properties: the product is not explosive
Boiling Point: Not Applicable
Vapor Pressure: Not Applicable
Flash Point: Not applicable
Melting Point: Not Applicable (Mixing)
Water solubility: max. 300 g/l
Viscosity: Not applicable
Vapor Density: Not Applicable

9.2. Other information

No further physical and chemical data have been determined

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

10. Stability and reactivity

10.1. Reactivity

Hygroscopic

10.2.

Chemical stability

10.3.

Stable under normal conditions

10.4.

Possible dangerous reactions

No dangerous reaction if used as intended

10.5.

Conditions to avoid

Humidity; keep away from open flames, hot surfaces and sources of ignition

10.6.

Materials to avoid

Combustible material, strong acids and bases, reducing material, chlorates, chlorites, hypochlorite, nitrites, chlorate-containing herbicides

Hazardous Breakdown Products

None under normal processing. None under normal use conditions. In case of combustion: Nitrogen oxides and ammonia

11. Toxicological information

Information on likely routes of exposure

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-Inhalation:

Specific test data for the substance or mixture is not available. Inhalation of dust in high concentration may cause irritation of respiratory system.

-Eye contact: Specific test data for the substance or mixture is not available. May cause irritation.

-Skin contact: May cause irritation.

-Ingestion: May cause gastrointestinal discomfort if consumed in large amounts.

Numerical measures of toxicity

- **Acute toxicity:** 0% of the mixture consists of ingredients of unknown acute toxicity
- **Irritation:** Weakly irritating
- **Sensitization:** Not expected to be a sensitizing agent
- **Chronic toxicity:** Based on the available data, the classification criteria are not met
- **Carcinogenicity:** Based on the available data, the classification criteria are not met
- **Mutagenicity:** Based on the available data, the classification criteria are not met
- **Reproductive effects:** No information available

12. Ecological Information

12.1. Ecotoxicity

Low water hazard (self-classified). Contains 0 % of components with unknown hazards to the aquatic environment. **Persistence** No data available **Bioaccumulation**

12.2. potential No data available Mobility No data available PBT and mPvB assessment results

The product does not contain any substance

12.3. classified as PBT or mPvB Other harmful effects No data available

12.4.

12.5.

12.6.

13. Disposal considerations

13.1. Methods for waste treatment

Product: It is safest to dispose of the product using it as intended, possibly in agriculture

Packages: Empty containers: Recycling or residual waste.

14. Transportation Information

14.1. IMDG

14.1.1. Number UN

Not regulated

14.1.2. Proper name of transport

Not regulated

14.1.3. Transport hazard class(es)

Not regulated

14.1.4. Classification Group

Not regulated

14.1.5. Marine pollutant

Not applied

14.1.6. Specific provisions

None

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14.1.7. Bulk transport in accordance with Annex II to Marpol 73/78 and the IBC Code

No data available

14.2. ADR/IATA:

14.2.1. Number UN

Not regulated

14.2.2. Proper name of transport

Not regulated

14.2.3. Transport hazard class(es)

Not regulated

14.2.4. Classification Group

Not regulated

14.2.5. Environmental Hazards

Not regulated

Specific provisions

None

15. Regulatory Information

15.1.1. Safety, health and environmental regulations/legislation specific to the substance or mixture

European Union

Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 on fertilisers

Regulation EC 1272/2008 (CLP)

Regulation (EC) No 1907/2006 (REACH)

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Observe Directive 94/33/EC on the protection of young people at work. It should not be used by professionals under the age of 18, please refer to the executive decree of the Danish Occupational Safety Authority on hazardous work with young people.

Authorizations and/or restrictions of use:

This product does not contain substances subject to authorization (Regulation (EC) No 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No 1907/2006 (REACH), Annex XVII)

REGULATION (EU) 2019/1148 on the placing on the market and use of explosives precursors:

This product does not fall under Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

The ammonium nitrate content corresponding nitrogen value by weight relative to the total mixture is below the 16% nitrogen threshold set by the regulation. Therefore, the restrictions on acquisition, possession, and use by members of the general public do not apply. But all suspicious transactions, as well as significant disappearances and thefts should be reported to the national point of contact.

National regulations

Germany:

Regulation on Protection against Dangerous Substances (Gefahrstoffverordnung – GefStoffV), dated 26.11.2010

Water Hazard Class (WGK): 1 (Slightly Water Hazardous)

15.2. Chemical Safety Assessment

The mixture was not subject to a safety assessment.

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16. Other information

Revision Information

Updated the data sheet to the current regulatory specifications.

Full Section 3 H Statements

H 272	H	May intensify fire; oxidizer
290	H 360	May be corrosive to metals
FD	H 302	May damage fertility. May damage the unborn child
		Harmful if swallowed

Classification procedure

Calculation method Expert opinion and determination of the weight of evidence Main bibliographic references and data sources used to compile the SDS Regulation (EC) No 1907/2006 (REACH) Regulation (EC) No. 1272, 2008 (CLP/GHS) Agency for Toxic Substances and Disease Registry (ATSDR) European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level (AEL) Hazardous Substances Database International Uniform Chemical Information Database (IUCID) NIOSH (Instituto Nacional para la Salud y Seguridad Ocupacional, National Institute for Occupational Safety and Health) National Toxicology Program (NTP) Organisation for Economic Co-operation and Development, publications on health, safety and the environment Organization for Economic Co-operation and Development, high-volume chemicals programme Organization for Economic Co-operation and Development, Screening Data Sheet World Health Organization

Appendix

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Resignation

This information is based on our practical experience and know-how. It is to the best of our knowledge, but excludes any obligation on our part. As we have no influence on stock keeping and application, we only guarantee the perfect quality of our products at the time of delivery.

End of Safety Data Sheet