

Safety Data Sheet

acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 07/15/2024

Reviewed on 07/15/2024

1 Identification

- **Product identifier**
- **Trade name:** Grillwood Extract Powder Natural
- **Product number:** 6264
- **Application of the substance / the mixture** Flavoring Ingredients
- **Details of the supplier of the safety data sheet**
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- **Manufacturer/Supplier:**
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 Totowa, NJ 07512 USA
- **Information department:**
 Product Safety Department
 productsafety@adv-bio.com
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 Email: responders@infotrac.net & During normal business hours: 1-973-339-6242

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- **GHS label elements**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labeling:**
 Proprietary FEMA/GRAS flavoring ingredient

- **Hazard statements**

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P280 Wear protective gloves.

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- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P363 Wash contaminated clothing before reuse.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



HEALTH 0 Health = 0
FIRE 1 Fire = 1
REACTIVITY 0 Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

Proprietary FEMA/GRAS flavoring ingredient ☠ Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; ☠ Skin Corrosion 1B, H314; Eye Damage 1, H318	≥0-<1%
Proprietary FEMA/GRAS flavoring ingredient ⚠ Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	≥0.1-<1%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air and be sure to call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO2, powder or alcoholresistant foam.
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
	Proprietary FEMA/GRAS Flavoring Ingredient	2 ppm
	Proprietary FEMA/GRAS flavoring ingredient	6.6 mg/m ³
	Proprietary FEMA/GRAS flavoring ingredient	15 ppm
	Proprietary FEMA/GRAS flavoring ingredient	3.6 mg/m ³
	Proprietary FEMA/GRAS Flavoring Ingredient	15 ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	1.4 ppm
	Proprietary FEMA/GRAS flavoring ingredient	15 ppm
	Proprietary FEMA/GRAS flavoring ingredient	150 ppm
	Proprietary FEMA/GRAS flavoring ingredient	200 ppm
	Proprietary FEMA/GRAS flavoring ingredient	250 ppm
	Proprietary FEMA/GRAS flavoring ingredient	21 mg/m ³

· **PAC-2:**

CAS: 7631-86-9	silicon dioxide, chemically prepared	200 ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	10 ppm
	Proprietary FEMA/GRAS flavoring ingredient	73 mg/m ³
	Proprietary FEMA/GRAS flavoring ingredient	23 ppm

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	Proprietary FEMA/GRAS flavoring ingredient	39 mg/m ³
	Proprietary FEMA/GRAS Flavoring Ingredient	86 mg/m ³
	Proprietary FEMA/GRAS Flavoring Ingredient	66 mg/m ³
	Proprietary FEMA/GRAS flavoring ingredient	96 ppm
	Proprietary FEMA/GRAS flavoring ingredient	350 ppm
	Proprietary FEMA/GRAS flavoring ingredient	2700* ppm
	Proprietary FEMA/GRAS flavoring ingredient	1,700 ppm
	Proprietary FEMA/GRAS flavoring ingredient	230 mg/m ³

· PAC-3:

CAS: 7631-86-9	silicon dioxide, chemically prepared	1200 ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	100 ppm
	Proprietary FEMA/GRAS flavoring ingredient	440 mg/m ³
	Proprietary FEMA/GRAS flavoring ingredient	200 ppm
	Proprietary FEMA/GRAS flavoring ingredient	310 mg/m ³
	Proprietary FEMA/GRAS Flavoring Ingredient	510 mg/m ³
	Proprietary FEMA/GRAS Flavoring Ingredient	400 mg/m ³
	Proprietary FEMA/GRAS flavoring ingredient	570 ppm
	Proprietary FEMA/GRAS flavoring ingredient	2100* ppm
	Proprietary FEMA/GRAS flavoring ingredient	4000* ppm
	Proprietary FEMA/GRAS flavoring ingredient	10000* ppm
	Proprietary FEMA/GRAS flavoring ingredient	1,400 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Please refer to the product specification and/or Certificate of Analysis for product storage requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

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At this time, the remaining constituent has no known exposure limits.

Proprietary FEMA/GRAS flavoring ingredient

PEL	Long-term value: 22 mg/m ³ , 5 ppm Skin
REL	Long-term value: 10 mg/m ³ , 2.3 ppm
TLV	Long-term value: 20* mg/m ³ Skin;*as inhalable fraction and vapor, A4

- **Additional information:** The lists that were valid during the creation were used as a basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
- **Breathing equipment:**
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
 The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	According to product specification
Odor:	According to product specification
Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

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Boiling point/Boiling range:	205 °C (401 °F)
· Flash point:	>110 °C (>230 °F)
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	1.145-1.165 g/cm ³ (9.55503-9.72193 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.2 %
VOC content:	0.16 %
	1.9 g/l / 0.02 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
 No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	25,875-27,237 mg/kg (ATE)
Dermal	LD50	37,500-39,474 mg/kg (ATE)

· Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 7631-86-9	silicon dioxide, chemically prepared	3
	Proprietary FEMA/GRAS Flavoring Ingredient	3
	Proprietary FEMA/GRAS flavoring ingredient	3
	Proprietary FEMA/GRAS flavoring ingredient	3
	Proprietary FEMA/GRAS flavoring ingredient	2B
	Proprietary FEMA/GRAS flavoring ingredient	3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:

· Bioaccumulative potential: No further relevant information available.

· Mobility in soil: No further relevant information available.

· Additional ecological information:

· General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

· Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

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· **Other adverse effects** No further relevant information available.

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|--|--|
| · UN-Number | |
| · DOT, IMDG, IATA | Not Regulated |
| · UN proper shipping name | |
| · DOT, IMDG, IATA | Not Regulated |
| · Transport hazard class(es) | |
| · DOT, ADN, IMDG, IATA | |
| · Class | Not Regulated |
| · Packing group | |
| · DOT, IMDG, IATA | Not Regulated |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | Not Regulated |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

Proprietary FEMA/GRAS flavoring ingredient

· **Section 313 (Specific toxic chemical listings):**

Proprietary FEMA/GRAS flavoring ingredient

Proprietary FEMA/GRAS flavoring ingredient

Proprietary FEMA/GRAS flavoring ingredient

· **TSCA (Toxic Substances Control Act):**

CAS: 9050-36-6 | Maltodextrin

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CAS: 65381-09-1	Caprylic/Capric triglyceride	ACTIVE
	Proprietary FEMA/GRAS flavoring ingredient	ACTIVE
CAS: 7631-86-9	silicon dioxide, chemically prepared	ACTIVE
	Proprietary FEMA/GRAS flavoring ingredient	ACTIVE
	Proprietary FEMA/GRAS flavoring ingredient	ACTIVE
	Proprietary FEMA/GRAS Flavoring Ingredient	ACTIVE
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	Proprietary FEMA/GRAS flavoring ingredient	ACTIVE

· Hazardous Air Pollutants
Proprietary FEMA/GRAS flavoring ingredient
Proprietary FEMA/GRAS flavoring ingredient
Proprietary FEMA/GRAS flavoring ingredient
· Proposition 65
· Chemicals known to cause cancer:
Proprietary FEMA/GRAS flavoring ingredient
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
Proprietary FEMA/GRAS flavoring ingredient
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

Proprietary FEMA/GRAS flavoring ingredient	C
Proprietary FEMA/GRAS flavoring ingredient	D, I
Proprietary FEMA/GRAS flavoring ingredient	I

· **TLV (Threshold Limit Value)**

Proprietary FEMA/GRAS Flavoring Ingredient	A3
Proprietary FEMA/GRAS flavoring ingredient	A4
Proprietary FEMA/GRAS flavoring ingredient	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.
 The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**

Proprietary FEMA/GRAS flavoring ingredient

· **Hazard statements**

H317 May cause an allergic skin reaction.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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· **Department issuing SDS:** Product Safety Department

· **Contact:**

Product Safety Department
productsafety@adv-bio.com

· **Date of preparation / last revision** 07/15/2024 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 3: Acute toxicity – Category 3

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Corrosion 1B: Skin corrosion/irritation – Category 1B

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Sensitization - Skin 1: Skin sensitisation – Category 1