

Date of issue: 01/24/2025

Reviewed on 01/24/2025

1 Identification

· Product identifier

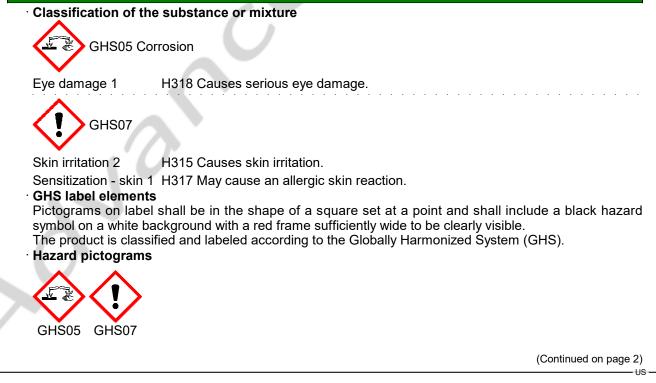
- [·] Trade name: Rhodinol Flavor Type natural
- · Other means of identification
- · Product number: 1487
- · Application of the substance / the mixture Flavoring Ingredients

· Details of the supplier of the safety data sheet

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Advanced Biotech makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Advanced Biotech product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of an Advanced Biotech product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Advanced Biotech product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

- Manufacturer/Supplier: Advanced Biotech 10 Taft Road Totowa, NJ 07512 USA
- Information department:
 Product Safety Department
 productsafety@adv-bio.com
- Emergency telephone number: Infotrac: 1-800-535-5053 (Domestic) & 1-352-323-3500 (International) Email: responders@infotrac.net & During normal business hours: 1-973-339-6242

2 Hazard(s) identification





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|--|---------------------------------------|
| ade name: Rhodinol Flavor Type natural | |
| | (Continuation of page 1) |
| · Signal word Danger | |
| · Hazard-determining components of labeling: | |
| Geraniol | |
| dl-Citronellol | |
| Hop oil | |
| Hazard statements | |
| H315 Causes skin irritation. | |
| H318 Causes serious eye damage. | |
| H317 May cause an allergic skin reaction. | |
| · Precautionary statements | |
| P261 Avoid breathing dust/fume/gas/mist/vapors/spray | |
| P305+P351+P338 If in eyes: Rinse cautiously with water for several n | ninutes. Remove contact lenses, if |
| present and easy to do. Continue rinsing. | |
| P310 Immediately call a poison center/doctor. | |
| P321 Specific treatment (see on this label). | |
| P362+P364 Take off contaminated clothing and wash it before | |
| P501 Dispose of contents/container in accordance with I | local/regional/national/international |
| regulations. | |
| Information pertaining to particular dangers for man and environ | iment: |
| Classification system: NFPA ratings (scale 0 - 4) | |
| NI FA Tauliys (Scale 0 - 4) | |
| Health = 3 | |
| Fire = 1 | |
| 3 Reactivity = 0 | |
| | |
| · HMIS-ratings (scale 0 - 4) | |
| HEALTH 3 Health = 3 | |
| FIRE 1 Fire = 1 | |
| | |
| REACTIVITY 0 Reactivity = 0 | |
| · Other hazards | |
| Results of PBT and vPvB assessment | |
| • PBT: Not applicable. | |
| • vPvB: Not applicable. | |
| Classification according to (d)(1)(ii) of § 1910.1200 | |
| The SDS issuer does not object to the classifications provided b | v importers or manufacturers of |
| precursor products. | 5 |
| Hazards not otherwise classified | |
| There are no adverse physical or health effects known that are not co | vered by the hazard classes of the |
| Hazard Communications Standard. | |
| | |
| | |
| 3 Composition/information on ingredients | |
| · Chemical characterization: Mixtures | |
| • Description: Mixture of the substances listed below with nonhazardou | us additions |
| | |
| Dangerous components: | |
| CAS: 106-22-9 dl-Citronellol | 50-100% |
| EINECS: 203-375-0 🚯 Skin irritation 2, H315; Eye irritation 2A, H319 | ; Sensitization - skin |
| 1, H317 | |
| | (Continued on page 3) |
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| | (Continua | ation of page 2) |
|-------------------|--|------------------|
| CAS: 8007-04-3 | Hop oil | ≥0.1-<1% |
| EINECS: 232-504-3 | Flammable liquids 3, H226; Aspiration hazard 1, H304; Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317 | \mathcal{O} |
| CAS: 106-25-2 | Nerol | ≥0.1-<1% |
| EINECS: 203-378-7 | Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin H317 | |

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.

• 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 eve contact: Rinse opened eve for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult 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.

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 Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: 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). Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

- **Protective Action Criteria for Chemicals**
- PAC-1:

None of the ingredients is listed.

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· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

· 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.

7 Handling and storage

• **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: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Control parameters
- **Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists that were valid during the creation were used as a basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

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

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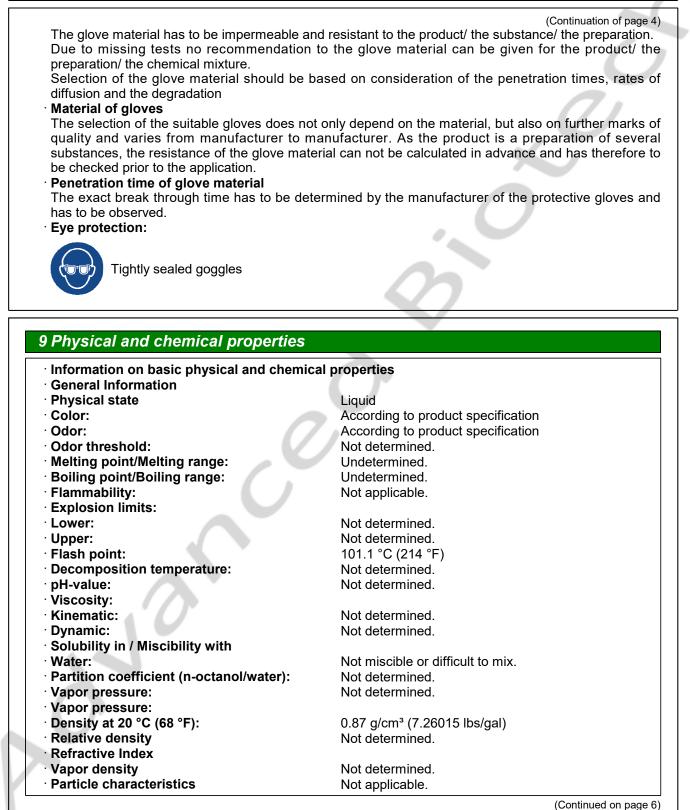


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Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

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| | (Continuation of page 5) |
|---|---|
| · Other information | |
| · Appearance: | |
| Form: | Liquid |
| Important information on protection | on of health |
| and environment, and on safety. | |
| Ignition temperature: | Product is not selfigniting. |
| Danger of explosion: | Product does not present an explosion hazard. |
| Solvent content: | |
| VOC content: | 0.00 % |
| | 0.0 g/l / 0.00 lb/gal |
| · Change in condition | |
| · Evaporation rate | Not determined. |
| | |

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.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

CAS: 106-22-9 dl-Citronellol

| Oral | LD50 | 3,450 | mg/kg | (A | TE) |
|------|------|---------|-------|----|-----|
| | | 0 4 5 0 | | , | |

3,450 mg/kg (rat) Dermal LD50 2,650 mg/kg (ATE)

2,650 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Irritant
- · Interactive effects No interactive effects between components are known.
- Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

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· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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.

| 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 | |



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|---|--|
| Environmental hazards: Marine pollutant: | Yes |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | x II of Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · Special precautions for user | Not applicable. |
| · UN "Model Regulation": | Not Regulated |

15 Regulatory information

 $^{\rm \cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\rm \cdot}$ Sara

| | edients is listed. | |
|---|--|--------|
| • • | ecific toxic chemical listings): | |
| None of the ingre | edients is listed. | |
| | ibstances Control Act): | |
| CAS: 106-22-9 | dl-Citronellol | ACTIVE |
| CAS: 106-24-1 | Geraniol | ACTIVE |
| CAS: 8007-04-3 | Hop oil | ACTIVE |
| CAS: 106-25-2 | Nerol | ACTIVE |
| CAS: 60-12-8 | Phenethyl alcohol | ACTIVE |
| CAS: 98-55-5 | alpha-Terpineol | ACTIVE |
| Hazardous Air I | Pollutants | |
| None of the ingre | edients is listed. | |
| Proposition 65 | | |
| Chemicals know | wn to cause cancer: | |
| None of the ingre | edients is listed. | |
| <u>.</u> | wn to cause reproductive toxicity for females: | |
| · Chemicals know | | |
| None of the ingr | | |
| None of the ingr | edients is listed. | |
| None of the ingr | edients is listed. wn to cause reproductive toxicity for males: | |
| None of the ingree Chemicals know None of the ingree | edients is listed. wn to cause reproductive toxicity for males: | |
| None of the ingree Chemicals know None of the ingree | edients is listed. wn to cause reproductive toxicity for males: edients is listed. wn to cause developmental toxicity: | |
| None of the ingre Chemicals know None of the ingre Chemicals know | edients is listed. wn to cause reproductive toxicity for males: edients is listed. wn to cause developmental toxicity: edients is listed. | |
| None of the ingre- Chemicals know None of the ingre- Chemicals know None of the ingre- Carcinogenic c | edients is listed. wn to cause reproductive toxicity for males: edients is listed. wn to cause developmental toxicity: edients is listed. | |
| None of the ingre- Chemicals know None of the ingre- Chemicals know None of the ingre- Carcinogenic c | edients is listed. wn to cause reproductive toxicity for males: edients is listed. wn to cause developmental toxicity: edients is listed. ategories ental Protection Agency) | |
| None of the ingre- Chemicals know None of the ingre- Chemicals know None of the ingre- Carcinogenic car EPA (Environm | edients is listed. wn to cause reproductive toxicity for males: edients is listed. wn to cause developmental toxicity: edients is listed. ategories ental Protection Agency) edients is listed. Limit Value) | |



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| | (Continuation of page 8) |
|-----------------|--|
| • | tional Institute for Occupational Safety and Health) |
| None of the ing | redients is listed. |
| GHS label eler | nents |
| symbol on a wh | label shall be in the shape of a square set at a point and shall include a black hazard ite background with a red frame sufficiently wide to be clearly visible. classified and labeled according to the Globally Harmonized System (GHS). rams |
| | |
| | |
| GHS05 GHS | 07 |
| Signal word D | angor |
| - | |
| | ining components of labeling: |
| Geraniol | |
| dl-Citronellol | |
| Hop oil | |
| Hazard statem | |
| H315 Causes s | |
| | erious eye damage. |
| | e an allergic skin reaction. |
| Precautionary | |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray |
| P305+P351+P3 | 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, it |
| | present and easy to do. Continue rinsing. |
| P310 | Immediately call a poison center/doctor. |
| P321 | Specific treatment (see on this label). |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| | ty 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
- H226 Flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- · Department issuing SDS: Product Safety Department
- Contact: Product Safety Department productsafety@adv-bio.com
- Date of previous version 01/09/2025
- Date of preparation 01/24/2025

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(Continuation of page 9) · Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) 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** Flammable liquids 3: Flammable liquids - Category 3 Skin irritation 2: Skin corrosion/irritation – Category 2 Eye damage 1: Serious eye damage/eye irritation - Category 1 Eye irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - skin 1: Skin sensitisation - Category 1 Aspiration hazard 1: Aspiration hazard - Category 1