

Date of issue: 01/24/2025

Reviewed on 01/24/2025

1 Identification

· Product identifier

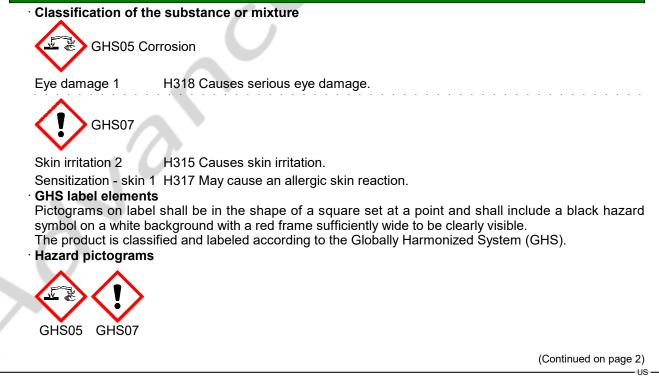
- [·] Trade name: Nerol / Geraniol (70/30) Natural
- · Other means of identification
- Product number: 1818
- · Application of the substance / the mixture Flavoring Ingredients

· 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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de name: Nerol / Geraniol (70/30) Natural		
		(Continuation of page 1)
Signal word D	anger	
Hazard-determ	nining components of labeling:	
Geraniol		
Nerol		
Hazard statem		\square
H315 Causes s		
	serious eye damage.	
	se an allergic skin reaction.	
Precautionary P261	Avoid breathing dust/fume/gas/mist/vap	ors/spray
		or several minutes. Remove contact lenses, if
1 000 1 001 1 0	present and easy to do. Continue rinsin	
P310	Immediately call a poison center/doctor	
P321	Specific treatment (see on this label).	
P362+P364	Take off contaminated clothing and was	h it before reuse.
P501	Dispose of contents/container in accord	ance with local/regional/national/international
	regulations.	
	ertaining to particular dangers for man a	nd environment:
Classification		
NFPA ratings	(scale U - 4)	
н	ealth = 3	
	re = 1	
	eactivity = 0	
HMIS-ratings (eactivity = 0	
HMIS-ratings (eactivity = 0 (scale 0 - 4)	
HMIS-ratings (eactivity = 0 (scale 0 - 4) Health = 3	
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HMIS-ratings (HEALTH 3 FIRE 1 REACTIVITY 0 Other hazards	eactivity = 0 (scale 0 - 4) Health = 3 Fire = 1 Reactivity = 0	
HMIS-ratings (HEALTH 3 FIRE 1 REACTIVITY 0 Other hazards Results of PB	eactivity = 0 (scale 0 - 4) Health = 3 Fire = 1 Reactivity = 0 T and vPvB assessment	
HMIS-ratings (HEALTH 3 FIRE 1 REACTIVITY 0 Other hazards Results of PB PBT: Not applie	eactivity = 0 (scale 0 - 4) Health = 3 Fire = 1 Reactivity = 0 T and vPvB assessment cable.	
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HMIS-ratings (HEALTH 3 FIRE 1 REACTIVITY 0 Other hazards Results of PB PBT: Not applie VPVB: Not applie Classification The SDS issue	eactivity = 0 (scale 0 - 4) Health = 3 Fire = 1 Reactivity = 0 T and vPvB assessment cable. licable. according to (d)(1)(ii) of § 1910.1200 er does not object to the classifications	provided by importers or manufacturers of
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HMIS-ratings (HEALTH 3 FIRE 1 REACTIVITY 0 Other hazards PBT: Not applie VPVB: Not applie VPVB: Not applie Classification The SDS issue precursor produ Hazards not of There are no ac Hazard Communication Composition Chemical char Description: M	eactivity = 0 (scale 0 - 4) Health = 3 Fire = 1 Reactivity = 0 T and vPvB assessment cable. licable. according to (d)(1)(ii) of § 1910.1200 er does not object to the classifications ucts. therwise classified dverse physical or health effects known that unications Standard. <i>n/information on ingredients</i> racterization: Mixtures Mixture of the substances listed below with n mponents:	are not covered by the hazard classes of the onhazardous additions.
HMIS-ratings (HEALTH 3 FIRE 1 REACTIVITY 0 Other hazards Results of PB PBT: Not applie vPvB: Not applie vPvB: Not applie vPvB: Not applie vPvB: Not applie vPvB: Not applie transification The SDS issue precursor produ Hazards not of There are no ac Hazard Communication Chemical char Description: M Dangerous co CAS: 106-25-2	eactivity = 0 (scale 0 - 4) Health = 3 Fire = 1 Reactivity = 0 T and vPvB assessment cable. licable. according to (d)(1)(ii) of § 1910.1200 er does not object to the classifications ucts. therwise classified dverse physical or health effects known that unications Standard. <i>n/information on ingredients</i> racterization: Mixtures fixture of the substances listed below with n mponents: Nerol	are not covered by the hazard classes of the onhazardous additions. ≥50-≤100%
HMIS-ratings (HEALTH 3 FIRE 1 REACTIVITY 0 Other hazards Results of PB PBT: Not applie vPvB: Not applie vPv	eactivity = 0 (scale 0 - 4) Health = 3 Fire = 1 Reactivity = 0 T and vPvB assessment cable. licable. according to (d)(1)(ii) of § 1910.1200 er does not object to the classifications ucts. therwise classified dverse physical or health effects known that unications Standard. <i>n/information on ingredients</i> racterization: Mixtures fixture of the substances listed below with n mponents: Nerol	are not covered by the hazard classes of the onhazardous additions. ≥50-≤100%

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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 eye contact: Rinse opened eye 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:
- 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). 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.

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.

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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

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.

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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:

Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemic	al properties
General Information	
· Physical state	Liquid
· Color:	According to product specification
· Odor:	According to product specification
· Odor threshold:	Not determined.
 Melting point/Melting range: 	Undetermined.
· Boiling point/Boiling range:	Undetermined.
· Flammability:	Not applicable.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	101.3 °C (214.3 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	Not determined.
· Kinematic:	Not determined.
· Dynamic:	Not determined.
· Solubility in / Miscibility with	Not determined.
· Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure:	Not determined.
· Vapor pressure:	Not determined.
	$0.974.0.994.a/am3/7.20252.7.27609.lba/apl}$
· Density at 20 °C (68 °F):	0.874-0.884 g/cm³ (7.29353-7.37698 lbs/gal)
· Relative density	Not determined.
Refractive Index	
Vapor density	Not determined.
· Particle characteristics	Not applicable.
• Other information	
Appearance:	
· Form:	Liquid
Important information on protection of he	
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
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· Solids content:

0.0 %

- · 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: 106-25-2 Nerol
- Oral LD50 4,500 mg/kg (ATE)
- · 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.

· 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.

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- · **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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

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.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Il of Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
Special precautions for user	Not applicable.
UN "Model Regulation":	Not Regulated

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15 Regulatory information · Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara · Section 355 (extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): None of the ingredients is listed. · TSCA (Toxic Substances Control Act): All components have the value ACTIVE. · Hazardous Air Pollutants None of the ingredients is listed. · Proposition 65 · Chemicals known to cause cancer: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories · EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) None of the ingredients is listed. · 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



· Signal word Danger

- Hazard-determining components of labeling: Geraniol Nerol
- Hazard statements

H315 Causes skin irritation.

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H318 Causes	serious eye damage.
	se an allergic skin reaction.
Precautionary	e e e e e e e e e e e e e e e e e e e
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P305+P351+P	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.
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.
Chemical safe	ety 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

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 01/10/2023

Date of preparation 01/24/2025

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, ÉU) 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** 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