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Reviewed on 01/24/2025

## Trade name: Cis-3-Hexenol natural

(Continuation of page 1) · Hazard pictograms GHS07 GHS02 · Signal word Warning · Hazard statements H226 Flammable liquid and vapor. H319 Causes serious eye irritation. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 Use explosion-proof [electrical/ventilating/lighting] equipment. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Information pertaining to particular dangers for man and environment: Classification system: · NFPA ratings (scale 0 - 4) Health = 2 Fire = 2Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2FIRE 2 Fire = 2 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 by importers or manufacturers of precursor products. · Hazards not otherwise classified There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard. 3 Composition/information on ingredients · Chemical characterization: Substances CAS No. Description

CAS: 928-96-1 cis-3-Hexen-1-ol

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- · Identification number(s)
- **EC number:** 213-192-8

## 4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, 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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 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). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

- Protective Action Criteria for Chemicals
- PAC-1:

Substance is not listed.

PAC-2:

Substance is not listed.

PAC-3:

Substance is not listed.

#### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

## 7 Handling and storage

- Precautions for safe handling No special precautions are necessary if used correctly.
  Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
   Protect against electrostatic charges.
- · 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: Not required.
- 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: Not required.
- 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.

#### · 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.

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Eye protection:	
Tightly sealed goggles	
Physical and chemical properties	
nformation on basic physical and chemic	al properties
General Information	Molecular Weight: 100.16 g/mol
Physical state	Liquid
Color:	According to product specification
Ddor:	According to product specification
Ddor threshold:	Not determined.
Ielting point/Melting range:	Undetermined.
Boiling point/Boiling range:	156-157 °C (312.8-314.6 °F)
lammability:	Flammable.
Explosion limits:	
.ower:	Not determined.
Jpper: lash point:	Not determined. 59 °C (138.2 °F)
Decomposition temperature:	Not determined.
H-value:	Not determined.
/iscosity:	Not determined.
Kinematic:	Not determined.
Dynamic:	Not determined.
Solubility in / Miscibility with	
Vater:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
/apor pressure:	Not determined.
apor pressure:	
Density at 20 °C (68 °F):	0.846-0.852 g/cm³ (7.05987-7.10994 lbs/gal)
Relative density	Not determined.
Refractive Index	Not determined.
/apor density Particle characteristics	Not applicable.
Other information	···
Appearance:	
Form:	Liquid
mportant information on protection of hea	
and environment, and on safety.	
gnition temperature:	Not determined.
Danger of explosion:	Not determined.
/OC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Change in condition	
Evaporation rate	Not determined.

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# 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.

	toxicity: 50 values that are relevant for classification:	
CAS: 92	28-96-1 cis-3-Hexen-1-ol	
Oral	LD50 4,615 mg/kg (ATE)	
	4,700 mg/kg (rat)	
Dermal	LD50 >5,000 mg/kg (rabbit)	
	y irritant effect:	
	skin: No irritant effect.	
	over Irritating offect	
	eye: Irritating effect.	
Sensitiz	zation: No sensitizing effects known.	
Sensitiz Additio	ization: No sensitizing effects known. onal toxicological information:	
Sensitiz Additio	zation: No sensitizing effects known.	
Sensitiz Additio Interact	ization: No sensitizing effects known. onal toxicological information:	
Sensitiz Additio Interact Carcino	ization: No sensitizing effects known. Inal toxicological information: Initiation of the set of the	
Sensitiz Additio Interact Carcino IARC (In	ization: No sensitizing effects known. onal toxicological information: etive effects No interactive effects between components are known. ogenic categories	
Sensitiz Additio Interact Carcinc IARC (In Substar	ization: No sensitizing effects known. Internation: Internation: Sensitize and the sense of the	
Sensitiz Additio Interact Carcino IARC (In Substar NTP (Na	ization: No sensitizing effects known. conal toxicological information: etive effects No interactive effects between components are known. ogenic categories International Agency for Research on Cancer) nce is not listed.	
Sensitiz Additio Interact Carcino IARC (In Substar NTP (Na Substar	ization: No sensitizing effects known. onal toxicological information: etive effects No interactive effects between components are known. ogenic categories International Agency for Research on Cancer) nce is not listed. Iational Toxicology Program)	
Sensitiz Additio Interact Carcino IARC (In Substar NTP (Na Substar OSHA-0	ization: No sensitizing effects known. onal toxicological information: etive effects No interactive effects between components are known. ogenic categories International Agency for Research on Cancer) nce is not listed. Iational Toxicology Program) nce is not listed.	
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- · 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.

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- Other adverse effects • Additional ecological information:
- · General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 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	UN1987
UN proper shipping name DOT IMDG, IATA	Alcohols, n.o.s. (cis-3-Hexen-1-ol) ALCOHOLS, N.O.S. (cis-3-Hexen-1-ol)
Transport hazard class(es) DOT	
Class Label	3 Flammable liquids 3
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	111
Environmental hazards: Marine pollutant:	No
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.



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On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L
5L
Code: E1
Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Warning: Flammable liquids
30
F-E,S-D
A
UN 1987 ALCOHOLS, N.O.S. (CIS-3-HEXEN-1-OL), 3, III

## 15 Regulatory information

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

Substance is not listed.

• Section 313 (Specific toxic chemical listings):

Substance is not listed.

• TSCA (Toxic Substances Control Act):

ACTIVE

· Hazardous Air Pollutants

Substance is not listed.

Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

### · Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value)

Substance is not listed.

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NIOSH-Ca (N	ational Institute for Occupational Safety and Health)
Substance is I	not listed.
GHS label ele	ements
symbol on a w	n label shall be in the shape of a square set at a point and shall include a black hazar hite background with a red frame sufficiently wide to be clearly visible. e is classified and labeled according to the Globally Harmonized System (GHS). grams
- Mu	
GHS02 GH	507
Signal word	Narning
Hazard state	nents
H226 Flamma	ble liquid and vapor.
H319 Causes	serious eye irritation.
Precautionar	y statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition source. No smoking.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P303+P361+F	2353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wit water [or shower].
P305+P351+F	2338 If in eves: Rinse cautiously with water for several minutes. Remove contact lenses,
	present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Chomical saf	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.

- · Department issuing SDS: Product Safety Department
- · Contact: Product Safety Department productsafety@adv-bio.com · Date of previous version 01/08/2025 · 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 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 (Continued on page 10)

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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 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A