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Trade name: 5,6,7,8-Tetrahydroquinoxaline synthetic

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Hazard picto	ograms
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GHS07	\mathcal{O}
Signal word	Warning
Hazard-dete	rmining components of labeling:
5,6,7,8-Tetra	hydroquinozaline
Hazard state	ements
H227 Combu	istible liquid.
	s skin irritation.
	s serious eye irritation.
	use respiratory irritation.
	ry statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources
	No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearin
	protection.
P305+P351+	P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,
	present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	DISUSE OF CONCINENTS/CONTAINED IN ACCORDANCE WITH IDEAL/TECIONAL/HABIONAL/IDEMABOOR
	regulations.
Information	regulations. pertaining to particular dangers for man and environment:
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Information Classification NFPA rating 200 HMIS-rating HEALTH 2 FIRE 2 REACTIVITY 0 Other hazard Results of P PBT: Not ap vPvB: Not ap	regulations. pertaining to particular dangers for man and environment: in system: s (scale 0 - 4) Health = 2 Fire = 2 Reactivity = 0 s (scale 0 - 4) Health = 2 Fire = 2 Reactivity = 0 ds BT and vPvB assessment blicable. oplicable. in according to (d)(1)(ii) of § 1910.1200 suer does not object to the classifications provided by importers or manufacturers of oducts. otherwise classified



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3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description

CAS: 34413-35-9 5,6,7,8-Tetrahydroquinozaline

- · Identification number(s)
- EC number: 252-002-8

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.

- · 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: No special measures required.
- 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.

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- · 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: 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:

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.

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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:

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Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemic General Information		
Physical state	Liquid	
Color:	According to product specification According to product specification Not determined. Undetermined. 108-111 °C (226.4-231.8 °F)	
Odor:		
Odor threshold:		
Melting point/Melting range:		
Boiling point/Boiling range:		
Flammability:	Not applicable.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	79 °C (174.2 °F) Not determined.	
Decomposition temperature:		
pH-value:	Not determined.	
Viscosity:		
Kinematic:	Not determined.	
Dynamic:	Not determined.	
Solubility in / Miscibility with	Not determined.	
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/water):	Not determined.	
Vapor pressure:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.082 g/cm³ (9.02929 lbs/gal)	
Relative density	Not determined.	
Refractive Index	Not determined.	
	Not determined.	
Vapor density Particle characteristics	Not applicable.	
Other information		
Appearance:		
Form:	Liquid	
Important information on protection of hea	alth	
and environment, and on safety.		
Ignition temperature:	Not determined.	
Danger of explosion:	Not determined.	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
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- · 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:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

• NTP (National Toxicology Program)

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

Substance is not 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.

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- · Other adverse effects
- · Additional ecological information:
- · General notes: Not hazardous for water.

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.

Transport information	
· UN-Number · DOT, ADN, IMDG, IATA	Not Regulated
· UN proper shipping name · DOT, ADN, IMDG, IATA	Not Regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	Not Regulated
 Packing group DOT, IMDG, IATA 	Not Regulated
· Environmental hazards: · Marine pollutant:	No
 Transport in bulk according to Anne 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

	• Section 355 (extremely hazardous substances):
	Substance is not listed.
	· Section 313 (Specific toxic chemical listings):
	Substance is not listed.
7	TSCA (Toxic Substances Control Act):
	ACTIVE

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·Hazardous	Air Pollutants
Παζαιύους	All Fullulants

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.

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

Substance is not 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 substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

· Hazard-determining components of labeling:

5,6,7,8-Tetrahydroquinozaline

Hazard statements

H227 Combustible liquid.

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up.

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(Continuation of page 8) 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. · Department issuing SDS: Product Safety Department · Contact: **Product Safety Department** productsafety@adv-bio.com Date of previous version 01/10/2023 Date of preparation 01/25/2025 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) 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 4: Flammable liquids - Category 4 Skin irritation 2: Skin corrosion/irritation - Category 2 Eye irritation 2A: Serious eye damage/eye irritation - Category 2A Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) - Category 3