

Date of issue: 01/25/2025

Reviewed on 01/25/2025





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Trade name: 2-Methyl-3-Tetrahydrofuranthiol synthetic



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3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- CAS: 57124-87-5 2-Methyl-3-tetrahydrofuranthiol
- · Identification number(s)
- EC number: 260-572-4

4 First-aid measures

· Description of first aid measures

- General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- · 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.
- After swallowing: Immediately call a 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
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.
- 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 Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- 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.

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• 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. 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: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Keep respiratory protective device available.
- 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.
 Store protective clothing separately.
- 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.

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· 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.

• Eye protection:



Tightly sealed goggles

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:	160-168 °C (320-334.4 °F)
Flammability:	Flammable.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	51 °C (123.8 °F)
Decomposition temperature:	Not determined.
pH-value:	Not determined.
Viscosity:	
Kinematic:	Not determined.
Dynamic:	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	Not determined.
Vapor pressure:	
Density at 20 °C (68 °F):	1.056 g/cm³ (8.81232 lbs/gal)
Relative density	Not determined.

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Refractive Index	
Vapor density	Not determined.
Particle characteristics	Not applicable.
Other information	A .
Appearance:	
Form:	Liquid
Important information on protection of	fhealth
and environment, and on safety.	
Ignition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of
0	explosive air/vapor mixtures are possible.
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:

ATE (Acute Toxicity Estimate)

Oral LD50 1,000 mg/kg (ATE)

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Oral LD50 1,000 mg/kg (ATE)

- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No 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.

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· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

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.
- 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.

UN-Number	
DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (2-Methyl-; tetrahydrofuranthiol)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (2-Methyl- tetrahydrofuranthiol)



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Transport hazard class(es)	
DOT	
	$\overline{\mathcal{A}}$
Class	3 Flammable liquids
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group DOT, IMDG, IATA	
Environmental hazards: Marine pollutant:	No
•	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	(/)
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum pet quantity per inper peckaging: 20 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Special precautions for user	Warning: Flammable liquids
Special precautions for user Stowage Category	A
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (2-METHYL-3-
	TETRAHYDROFURANTHIOL), 3, III

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

Substance is not listed.

• Section 313 (Specific toxic chemical listings):

Substance is not listed.

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•	Substances Control Act):
ACTIVE	
Hazardous Air	Pollutants
Substance is n	
Proposition 6	
Chemicals know	own to cause cancer:
Substance is n	ot listed.
Chemicals know	own to cause reproductive toxicity for females:
Substance is n	ot listed.
Chemicals know	own to cause reproductive toxicity for males:
Substance is n	ot listed.
Chemicals know	own to cause developmental toxicity:
Substance is n	ot listed.
Carcinogenic	categories
-	nental Protection Agency)
Substance is n	
TIV (Thresho	d Limit Value)
Substance is n	
	tional Institute for Occupational Safety and Health)
Substance is n	
symbol on a wh	label shall be in the shape of a square set at a point and shall include a black hazard nite background with a red frame sufficiently wide to be clearly visible. is classified and labeled according to the Globally Harmonized System (GHS). rams
Signal word W	/arning
2-Methyl-3-tetra Hazard statem	nining components of labeling: ahydrofuranthiol ients ble liquid and vapor. f swallowed.



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P403+P235	Store in a well-ventilated place. Keep cool.
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.

- · Department issuing SDS: Product Safety Department
- · Contact:

Product Safety Department

- productsafety@adv-bio.com
- Date of previous version 01/16/2024
- 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) 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 Acute toxicity - oral 4: Acute toxicity - Category 4 Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) - Category 2