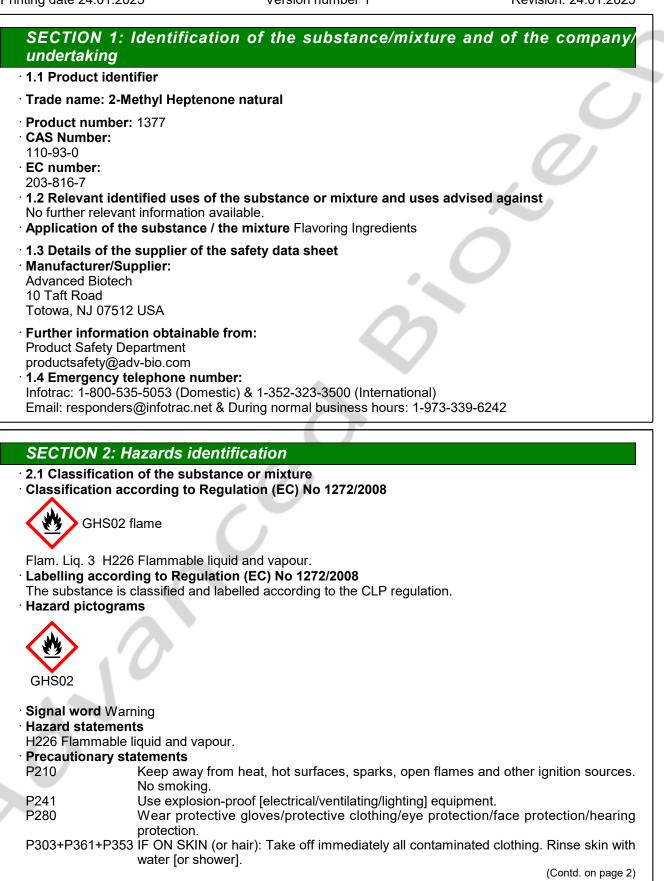


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P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other haza	rds

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- CAS: 110-93-0 2-Methyl Heptenone
- · Identification number(s)
- EC number: 203-816-7
- · Acute toxicity estimate (ATE) values LD50 oral: 3,570 mg/kg

SECTION 4: First aid measures

- · 4.1 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.
- · After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 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.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

• **6.4 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.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- **Information about fire and explosion protection:** Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:
 Dease refer to the product specification and/or Cortificate of Applysic for product store
- 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 container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as a basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Respiratory protection: Not required.
- Hand protection



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/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties				
· General Information	Molecular Weight: 126.2 g/mol			
· Physical state	Liquid			
· Colour:	According to product specification			
· Odour:	According to product specification			
· Odour threshold:	Not determined.			
 Melting point/freezing point: 	Undetermined.			
 Boiling point or initial boiling point and boiling 				
range	173 °C			
· Flammability	Flammable.			
Lower and upper explosion limit				
Lower:	Not determined.			
· Upper:	Not determined.			
Flash point:	50 °C			
Decomposition temperature:	Not determined.			
· pH · · Hq·	Not determined.			
· Viscosity:				
· Kinematic viscosity	Not determined.			
· Dynamic:	Not determined.			
· Solubility				
· water:	Not miscible or difficult to mix.			
· Partition coefficient n-octanol/water (log value) Not determined.			
· Vapour pressure:	, Not determined.			
 Density and/or relative density 				
· Density at 20 °C:	0.85-0.87 g/cm³			
· Relative density	Not determined.			
Specific Gravity	0.850-0.870 @ 20 °C			
Refractive Index	6			
· Vapour density	Not determined.			
• 9.2 Other information				
· Appearance:	1 invited			
· Form:	Liquid			
Important information on protection of health	1			
and environment, and on safety.	Net determined			
Ignition temperature:	Not determined.			
· Explosive properties:	Product is not explosive. However, formation of			
Only and a surface to	explosive air/vapour mixtures are possible.			
· Solvent content:	0.00.0/			
· VOC (EC)	0.00 %			
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Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical has	zard	
classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Flammable liquid and vapour.	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

• **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008** • **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

CAS: 110-93-0 2-Methyl Heptenone

Oral LD50 3,570 mg/kg (ATE)

3,500 mg/kg (rat)

· Primary irritant effect:

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.

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• **Reproductive toxicity** Based on available data, the classification criteria are not met.

- STOT-single exposure Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

· Endocrine disrupting properties

Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (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.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport informa	
14.1 UN number or ID number	
· ADR, IMDG, IATA	UN1224
· 14.2 UN proper shipping name	
ADR	1224 KETONES, LIQUID, N.O.S. (2-Methy
	Heptenone)
· IMDG, IATA	KETONES, LIQUID, N.O.S. (2-Methyl Heptenone)
	(Contd. on page



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Trade name: 2-Methyl Heptenone natural (Contd. of page 6) · 14.3 Transport hazard class(es) · ADR · Class 3 (F1) Flammable liquids. · Label 3 · IMDG, IATA · Class 3 Flammable liquids. · Label 3 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: • Marine pollutant: No • 14.6 Special precautions for user Warning: Flammable liquids. · Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-D Stowage Category А · 14.7 Maritime transport in bulk according to **IMO** instruments Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · Transport category 3 Tunnel restriction code D/E ·IMDG · Limited quantities (LQ) 5L • Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN 1224 KETONES, LIQUID, N.O.S. (2-METHYL · UN "Model Regulation": HEPTENONE), 3, III

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SECTION 1	5: Regulatory information
· 15.1 Safety, h	nealth and environmental regulations/legislation specific for the substance or
mixture	
	ording to Regulation (EC) No 1272/2008
· Hazard pictog	is classified and labelled according to the CLP regulation.
	Tans
GHS02	
· Signal word W	Varning
· Hazard statem	
H226 Flammat	ble liquid and vapour.
· Precautionary	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
P241	No smoking. Use explosion-proof [electrical/ventilating/lighting] equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
P303+P361+P3	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water [or shower].
P403+P235 P501	Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international
1001	regulations.
· Directive 2012	
	rous substances - ANNEX I Substance is not listed.
	ory P5c FLAMMABLE LIQUIDS
	antity (tonnes) for the application of lower-tier requirements 5,000 t
	antity (tonnes) for the application of upper-tier requirements 50,000 t
	(EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
	011/65/EU on the restriction of the use of certain hazardous substances in
	electronic equipment – Annex II
Substance is n	
	(EU) 2019/1148
	STRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of
licensing und	
Substance is n	ot listed.
· Annex II - REP	ORTABLE EXPLOSIVES PRECURSORS
Substance is n	ot listed.
· Regulation (E	C) No 273/2004 on drug precursors
Substance is n	ot listed.
· Regulation (I	EC) No 111/2005 laying down rules for the monitoring of trade between the
	nd third countries in drug precursors
Substance is n	
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(Contd. of page 8) • **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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: 09.01.2025 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 IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values Elam Lin 3: Flammable liquids – Category 3

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