

according to 29 CFR 1910.1200(g)

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL

Revision date: 03/25/2025

Product code: 376110US

Page 1 of 9

1. Identification

Product identifier

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

Details of the supplier of the safety data sheet

Company name:	Axxence Aromatic GmbH	
Street:	Tackenweide 28	
Place:	D-46446 Emmerich am Rhein	
Telephone:	+ 49 2822 68561 0	Telefax: + 49 2822 68561 39
E-mail:	info@axxence.com	
Contact person:	Safety Team	Telephone: + 49 2822 68561 0
E-mail:	safety-documentation@axxence.com	
Internet:	www.axxence.de	
Responsible Department:	Safety Management	
Emergency phone number:	+49 2822 68561 99	

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 2 Serious eye damage/eye irritation: Eye Irrit. 2A Respiratory or skin sensitization: Skin Sens. 1

Danger

Label elements

29 CFR Part 1910.1200

Signal word:

Pictograms:



Hazard statements

Highly flammable liquid and vapor May cause an allergic skin reaction Causes serious eye irritation

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash hands thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of Water and soap.



according to 29 CFR 1910.1200(g)

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL

Revision date: 03/25/2025

Product code: 376110US

Page 2 of 9

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use Water spray jet / Dry extinguishing powder / Carbon dioxide (CO2) / alcohol resistant foam to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container to Organic waste.

3. Composition/information on ingredients

<u>Mixtures</u>

Relevant ingredients

CAS No	Components	Quantity
64-17-5	ethanol, ethyl alcohol	98,5 - 99,0 %
81925-81-7	NATURAL 5-METHYL-2-HEPTEN-4-ONE	1,0 - 1,5 %

4. First-aid measures

Description of first aid measures

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water.

Specific hazards arising from the chemical

Highly flammable. Vapors may form explosive mixtures with air.

Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Supress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or



according to 29 CFR 1910.1200(g)

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL

Revision date: 03/25/2025

Product code: 376110US

Page 3 of 9

surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Reference to other sections

Safe handling: see section 7 Personal protection equipment (PPE): see section 8 Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

8. Exposure controls/personal protection

Control parameters



according to 29 CFR 1910.1200(g)

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL

Revision date: 03/25/2025

Product code: 376110US

Page 4 of 9

Exposure limits

•					
CAS No	Substance	ppm	mg/m³	Category	Origin
64-17-5	Ethanol	1000	1880	STEL (15 min)	ACGIH-2024
64-17-5	Ethyl alcohol (Ethanol)	1000	1900	TWA (8 h)	PEL
64-17-5	Ethyl alcohol	1000	1900	TWA (8 h)	REL

Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

Suitable gloves type: Butyl caoutchouc (butyl rubber) / FKM (fluoro rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable gloves type: Butyl caoutchouc (butyl rubber) / FKM (fluoro rubber)

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Color: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limits: Upper explosion limits: Flash point: Auto-ignition temperature: Decomposition temperature: pH-Value:	Liquid Colourless to pale yellow	not determined 78 °C not determined 3,1 vol. % 27,7 vol. % 12 °C 363 °C not determined not determined
pH-Value: Water solubility: (at 20 °C) Solubility in other solvents not determined Partition coefficient n-octanol/water: Vapor pressure: (at 20 °C)		not determined ~789 g/l not determined 58 hPa



according to 29 CFR 1910.1200(g)

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL					
Revision date: 03/25/2025	Product code: 376110US	Page 5 of 9			
Vapor pressure: (at 50 °C)	293 hPa				
Density (at 20 °C):	0,79 g/cm³				
Relative vapour density:	not determined				
Other information					
Information with regard to physical	hazard classes				
Explosive properties					
The product is not: Explosive. not	t explosive according to EU A.14				
Oxidizing properties					
The product is not: oxidising.					
Other safety characteristics					
Evaporation rate:	not determined				
Solvent content:	99,00 %				
Solid content:	not determined				

10. Stability and reactivity

Reactivity

Highly flammable.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

Incompatible materials

No information available.

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	No Components					
	Exposure route	Dose		Species	Source	Method
64-17-5	ethanol, ethyl alcohol					
	oral	LD50 mg/kg	10470	Rat	REACH Dossier	OECD 401
	dermal	LD50 mg/kg	17100	Rabbit	REACH Dossier	
	inhalation (4 h) vapour	LC50	121 mg/l	Rat	REACH Dossier	OECD 403

Irritation and corrosivity



according to 29 CFR 1910.1200(g)

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL

Revision date: 03/25/2025

Product code: 376110US

Page 6 of 9

Serious eye damage/eye irritation: Causes serious eye irritation

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitizing effects

May cause an allergic skin reaction (NATURAL 5-METHYL-2-HEPTEN-4-ONE)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA):	No ingredient of this mixture is listed.
Carcinogenicity (IARC):	Ethanol in alcoholic beverages (CAS 64-17-5) is listed in group 1.
Carcinogenicity (NTP):	No ingredient of this mixture is listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on other hazards

Endocrine disrupting properties

No information available.

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

12. Ecological information

Ecotoxicity

The product is not: Ecotoxic.

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria. No information available.

Other adverse effects

No information available.

Further information

Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

14. Transport information



according to 29 CFR 1910.1200(g)

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL				
Revision date: 03/25/2025	Product code: 376110US	Page 7 of 9		
U.S. DOT 49 CFR 172.101				
<u>UN number or ID number:</u>	UN 1170			
Proper shipping name:	ETHANOL SOLUTIONS			
Transport hazard class(es):	3			
Packing group:	II			
Hazard label:	3			
Marine transport (IMDG)	•			
UN number or ID number:	UN 1170			
UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)			
Transport hazard class(es):	3			
Packing group:	II			
Hazard label:	3			
Special Provisions:	144			
Limited quantity:	1 L			
Excepted quantity:	E2			
EmS:	F-E, S-D			
Air transport (ICAO-TI/IATA-DGR)				
<u>UN number or ID number:</u>	UN 1170			
UN proper shipping name:	ETHANOL SOLUTION			
<u>Transport hazard class(es):</u>	3			
Packing group:				
Hazard label:	3			
Special Provisions:	A3 A58 A180			
Limited quantity Passenger:	1L			
Passenger LQ:	Y341			
Excepted quantity:	E2			
IATA-packing instructions - Passenger:	353 5 L			
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	364			
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	60 L			
Environmental hazards	00 L			
ENVIRONMENTALLY HAZARDOUS:	No			
<u>Special precautions for user</u> Warning: Combustible liquid.				
Transport in bulk according to Annex II of	MARPOL 73/78 and the IBC Code			
not applicable				
15. Regulatory information				
II S Regulations				

U.S. Regulations

National regulatory information



according to 29 CFR 1910.1200(g)

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL

Revision date: 03/25/2025

Product code: 376110US

Page 8 of 9

SARA Section 311/312 Hazards:

ethanol, ethyl alcohol (64-17-5): Fire hazard, Immediate (acute) health hazard NATURAL 5-METHYL-2-HEPTEN-4-ONE (81925-81-7): Fire hazard, Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information			
Revision date:	03/25/2025		
Revision No:	100		
Revision No: Abbreviations and acronyms ADR: Accord européen su (European Agreement com IMDG: International Maritin IATA: International Air Tra GHS: Globally Harmonized EINECS: European Invent ELINCS: European List of CAS: Chemical Abstracts LC50: Lethal concentration LD50: Lethal dose, 50% CLP: Classification, labellin REACH: Registration, Eva GHS: Globally Harmonised UN: United Nations DNEL: Derived No Effect I DMEL: Derived Minimal Eff PNEC: Predicted No Effect ATE: Acute toxicity estima LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentra ErC50: Effective Concentra NOEC: No Observed Effect BCF: Bio-concentration fact PBT: persistent, bioaccum vPvB: very persistent, very RID: Regulations concerni ADN: European Agreemer (Accord européen relatif al intérieures) EmS: Emergency Schedul MFAG: Medical First Aid C ICAO: International Civil A	100 r le transport des marchandises cerning the International Carria ne Code for Dangerous Goods nsport Association d System of Classification and L ory of Existing Commercial Che Notified Chemical Substances Service h, 50% ng and Packaging luation and Authorization of Che d System of Classification, Labe Level fect Level t Concentration te tion 50% ation 50%, growth rate ct Concentration te tion 50%, growth rate ct Concentration ctor ulative, toxic / bioaccumulative ng the international carriage of a t concerning the International C u transport international des ma es Suide viation Organization	age of Dangerous Goods by Road) Labelling of Chemicals emical Substances emicals elling and Packaging of Chemicals dangerous goods by rail Carriage of Dangerous Goods by Inland Waterways archandises dangereuses par voies de navigation	
MARPOL: International Co	onvention for the Prevention of M	Marine Pollution from Ships	
IBC: Intermediate Bulk Co VOC: Volatile Organic Cor	npounds		
For abbreviations and acro	onyms, see table at http://abbrev	n information requirements and chemical safety	



according to 29 CFR 1910.1200(g)

NATURAL 5-METHYL-2-HEPTEN-4-ONE 1% IN ETHANOL

Revision date: 03/25/2025

Product code: 376110US

Page 9 of 9

Other data

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)