

according to UN GHS (ST/SG/AC.10/11/Rev.10)

NATURAL ALLYL HEXANOATE (CAPROATE)

Revision date: 21.06.2024

Product code: 203210WW

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier NATURAL ALLYL HEXANOATE (CAPROATE) Substance name: NATURAL ALLYL HEXANOATE (CAPROATE) CAS No: 123-68-2 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture For Flavour use for food and feed only 1.3. Details of the supplier of the safety data sheet Axxence Aromatic GmbH Company name: Street: Tackenweide 28 D-46446 Emmerich am Rhein Place: + 49 2822 68561 0 Telephone: 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 +49 2822 68561 99 1.4. Emergency telephone number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

UN GHS (ST/SG/AC.10/11/Rev.10)

Acute toxicity: Acute Tox. 3 (dermal) Acute toxicity: Acute Tox. 3 (oral) Hazardous to the aquatic environment: Aquatic Acute 1 Hazardous to the aquatic environment: Aquatic Chronic 3

2.2. Label elements

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Signal word: Danger

Pictograms:



Hazard statements

H227	Combustible liquid.
H301+H311	Toxic if swallowed or in contact with skin.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.



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P301+P316	IF SWALLOWED: Get emergency medical help immediately.	
P321	Specific treatment (see on this label).	
P330	Rinse mouth.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P316	Get emergency medical help immediately.	
P321	Specific treatment (see on this label).	
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.	
P370+P378	In case of fire: Use Water spray jet / alcohol resistant foam / Extinguishing powder /	
	Carbon dioxide (CO2) to extinguish.	
P391	Collect spillage.	
P403	Store in a well-ventilated place.	
P405	Store locked up.	
P501	Dispose of contents/container to organic waste.	

2.3. Other hazards

This substance is not listed as Substance of Very High Concern (SVHC) in the Candidate List according to REACH, Article 59. This substance is not identifed as SVHC (substance of very high concern) and is not subject to autorisation according to Annex XIV of REACH.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C9 H16 O2
Molecular weight:	156,22 g/mol

Relevant ingredients

CAS No	Chemical name	Quantity
	Classification (UN GHS (ST/SG/AC.10/11/Rev.10))	
123-68-2	NATURAL ALLYL HEXANOATE (CAPROATE)	100 %
	Acute Tox. 3, Acute Tox. 3, Aquatic Acute 1, Aquatic Chronic 3; H311 H301 H400 H412	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. Medical treatment necessary.

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. Call a physician immediately.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. Induce vomiting when the affected person is not unconscious. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

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. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation.

For emergency responders

Suppress gases/vapours/mists with water spray jet. Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and material for containment and cleaning up

For cleaning up

Ventilate affected area.

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.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

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.

7.2. Conditions for safe storage, including any incompatibilities



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Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

Hints on joint storage

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Suitable gloves type: NBR (Nitrile rubber) + Natural fibres (e.g. cotton)

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 NBR (Nitrile rubber) + Natural fibres (e.g. cotton)

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid	
	<-20 °C
	187 °C
	not determined
	not determined
	not determined
	63 °C
	268 °C
	not determined
	not determined
	1,22 mm²/s
	0.44
	0,41 g/l
	Liquid

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Solubility in other solvents			
not determined			
Partition coefficient n-octanol/water:	3,2		
Vapour pressure:	2,69 hPa		
(at 20 °C)			
Density (at 20 °C):	0,89 g/cm³		
Relative vapour density:	5,39		
(at 20 °C)			
Particle characteristics:	not applicable		
9.2. Other information			
Information with regard to physical hazard cla	sses		
Explosive properties			
The product is not: Explosive. not explosive	according to EU A.14		
Oxidizing properties			
The product is not: oxidising.			
Other safety characteristics			
Evaporation rate:	not determined		
Solvent content:	0%		
Solid content:	0%		
Viscosity / dynamic:	1,09 mPa·s		
(at 20 °C)			
SECTION 10: Stability and reactivity			

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Toxic if swallowed. Toxic in contact with skin.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
123-68-2	NATURAL ALLYL HEXANOATE (CAPROATE)					
	oral	LD50 mg/kg	218	Rat	REACH Dossier	OECD 401
	dermal	LD50 mg/kg	820	Rabbit	REACH Dossier	OECD 402

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Irritation and corrosivity

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

Sensitising effects

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

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.

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

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity Dose [h] [d] Species		Source	Method			
123-68-2	NATURAL ALLYL HEXANOATE (CAPROATE)						
	Acute fish toxicity	LC50 mg/l	0,117	96 h	Danio rerio (zebrafish)	REACH Registration	OEDC 203
	Acute algae toxicity	ErC50 mg/l	>4,6		Desmodesmus subspicatus	REACH Registration	OECD 201
	Acute crustacea toxicity	EC50	2,0 mg/l		Daphnia magna (Big water flea)	REACH Registration	OECD TG 202
	Algae toxicity	NOEC mg/l	0,158	72 d	Desmodesmus subspicatus	REACH Registration	OECD 201

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation					
123-68-2	NATURAL ALLYL HEXANOATE (CAPROATE)					
	OECD 301F	19%	2	REACH Registration		
	Readily biodegradable (according to OECD criteria).					
	OECD 301F	62%	7	REACH Registration		
	Readily biodegradable (according to OECD criteria).					
	OECD 301F	70%	28	REACH Registration		
	Readily biodegradable (according to OECD criteria).					

12.3. Bioaccumulative potential

The product has not been tested.



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Partition coefficient n-octanol/water

CAS No	Chemical name			
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BCF				

CAS No	Chemical name	BCF	Species	Source
	NATURAL ALLYL HEXANOATE (CAPROATE)	102,3	Fish	REACH Registration

12.4. Mobility in soil

The product has not been tested.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms. No information available.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

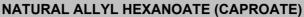
SECTION 14: Transport information

Marine transport (IMDG)

14.1. UN number or ID number:	UN 2810
14.2. UN proper shipping name:	TOXIC LIQUID, ORGANIC, N.O.S.
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1
	6
Special Provisions:	223 274
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-A
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	UN 2810
14.2. UN proper shipping name:	TOXIC LIQUID, ORGANIC, N.O.S.
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1



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Revision date: 21.06.2024 Product code: 203210WW Page 8 of 9 S **Special Provisions:** A3 A4 A137 Limited quantity Passenger: 2 L Passenger LQ: Y642 Excepted quantity: E1 IATA-packing instructions - Passenger: 655 IATA-max. quantity - Passenger: 60 L IATA-packing instructions - Cargo: 663 IATA-max. quantity - Cargo: 220 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: Yes Danger releasing substance: ALLYL HEXANOATE 14.6. Special precautions for user Warning: Acute Toxicity. 14.7. Maritime transport in bulk according to IMO instruments not applicable **SECTION 15: Regulatory information** National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning. **SECTION 16: Other information**

Changes

This data sheet contains changes from the previous version in section(s): 2.



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Abbreviations and acronyms ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration. Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations DNEL: Derived No Effect Level DMFL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). EC/EEC: European Community/European Economic Community EU: European Union M-factor: Multiplying factor IATA: International Air Transport Association DGR: Dangerous Goods Regulations ICAO: International Civil Aviation Organization TI: Technical Instructions VOC: volatile organic compound **Further Information**

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.