

according to Regulation (EC) No 1907/2006

NATURAL ALLYL HEXANOATE (CAPROATE) 25%

Revision date: 25.08.2022 Product code: 203200 Page 1 of 15

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

1.1. Product identifier

NATURAL ALLYL HEXANOATE (CAPROATE) 25%

CAS No: 123-68-2 EC No: 204-642-4

UFI: 4NR4-2KGR-T00G-8C3R

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

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

1.4. Emergency telephone +49 2822 68561 99

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

NATURAL ALLYL HEXANOATE (CAPROATE)

Signal word: Danger

Pictograms:







Hazard statements

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.



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Precautionary statements

conditionally continued	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
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.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.

Dispose of contents/container to organic waste.

P501 **2.3. Other hazards**

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name						
	EC No	Index No	REACH No				
	Classification (Regulation (EC) No 1272/2008)						
64-17-5	ethanol, ethyl alcohol			60 - 67,5 %			
	200-578-6						
	Flam. Liq. 2, Eye Irrit. 2; H225 H31	Liq. 2, Eye Irrit. 2; H225 H319					
123-68-2	NATURAL ALLYL HEXANOATE (CAPROATE)						
	204-642-4						
	Acute Tox. 3, Acute Tox. 3, Aquation						
105-54-4	NATURAL ETHYL BUTYRATE	ATURAL ETHYL BUTYRATE					
	203-306-4		01-2120118576-54				
	Flam. Liq. 3, Eye Irrit. 2; H226 H319						

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity						
	Specific Conc. I	cific Conc. Limits, M-factors and ATE							
64-17-5	200-578-6	ethanol, ethyl alcohol	60 - 67,5 %						
	inhalation: LC5	: LC50 = 121 mg/l (vapours); dermal: LD50 = 17100 mg/kg; oral: LD50 = 10470 mg/kg							
123-68-2	23-68-2 204-642-4 NATURAL ALLYL HEXANOATE (CAPROATE)								
	dermal: LD50 = 820 mg/kg; oral: LD50 = 218 mg/kg								
105-54-4	05-54-4 203-306-4 NATURAL ETHYL BUTYRATE								
	inhalation: LC50 = >7380 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000								
	mg/kg								

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

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. Medical treatment necessary.

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water

5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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

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

Print date: 09.10.2024



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6.2. Environmental precautions

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

6.3. 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.

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

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can 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.

7.2. 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
64-17-5	ethanol, ethyl alcohol		•	•
Worker DNEL,	long-term	inhalation	systemic	380-950 mg/m³
Worker DNEL,	long-term	dermal	systemic	343 mg/kg bw/day
Consumer DNI	EL, long-term	inhalation	systemic	114 mg/m³
Consumer DNI	EL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DNI	EL, long-term	oral	systemic	87 mg/kg bw/day
Worker DNEL,	acute	inhalation	local	1900 mg/m³
Consumer DNI	EL, acute	inhalation	local	950 mg/m³
123-68-2	NATURAL ALLYL HEXANOATE (CAPROATE)			
Worker DNEL,	long-term	inhalation	systemic	15 mg/m³
Worker DNEL,	long-term	dermal	systemic	4,3 mg/kg bw/day
Consumer DNI	EL, long-term	inhalation	systemic	3,7 mg/m³
Consumer DNI	EL, long-term	dermal	systemic	2,1 mg/kg bw/day
Consumer DNI	EL, long-term	oral	systemic	2,1 mg/kg bw/day
105-54-4	NATURAL ETHYL BUTYRATE			
Worker DNEL,	long-term	inhalation	systemic	49,3 mg/m³
Worker DNEL, long-term		dermal	systemic	2,33 mg/kg bw/day
Consumer DNI	EL, long-term	inhalation	systemic	7,4 mg/m³
Consumer DNI	EL, long-term	dermal	systemic	0,833 mg/kg bw/day
Consumer DNI	EL, long-term	oral	systemic	0,833 mg/kg bw/day



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PNEC values

CAS No	Name of agent						
Environmental	compartment	Value					
64-17-5	ethanol, ethyl alcohol						
Freshwater							
Marine water	Marine water						
Freshwater se	diment	3,6 mg/kg					
Marine sedime	ent	2,9 mg/kg					
Secondary poi	soning	380 mg/kg					
Micro-organisr	ns in sewage treatment plants (STP)	580 mg/l					
Soil		0,63 mg/kg					
123-68-2	NATURAL ALLYL HEXANOATE (CAPROATE)	·					
Freshwater	Freshwater						
Marine water		0,000012 mg/l					
Freshwater se	diment	0,00446 mg/kg					
Marine sedime	ent	0,000446 mg/kg					
Micro-organisr	ns in sewage treatment plants (STP)	10 mg/l					
Soil		0,000825 mg/kg					
105-54-4	NATURAL ETHYL BUTYRATE	·					
Freshwater		0,0297 mg/l					
Freshwater (in	termittent releases)	1 mg/l					
Marine water		0,00297 mg/l					
Marine water (Marine water (intermittent releases)						
Freshwater se	Freshwater sediment						
Marine sedime	Marine sediment						
Micro-organisr	ns in sewage treatment plants (STP)	23,6 mg/l					
Soil		0,0171 mg/kg					

8.2. Exposure controls









Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

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.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.



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Thermal hazards

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour:

Melting point/freezing point: <-20 °C Boiling point or initial boiling point and >78 °C

boiling range:

Flammability: not applicable

not applicable

Lower explosion limits: >1,5 vol. % <27,7 vol. % Upper explosion limits: Flash point: >13 °C ~368 °C Auto-ignition temperature: Decomposition temperature: not determined pH-Value: not determined Water solubility:

The study does not need to be conducted because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: <58 hPa

(at 20 °C)

Vapour pressure: <293 hPa

(at 50 °C)

Density (at 20 °C): 0,82 g/cm3 Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

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: 65.00 % Solid content: 0%

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable.

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

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive



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mixtures with air.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 872,0 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name								
	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			
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			
105-54-4	NATURAL ETHYL BUTYRATE								
	oral	LD50 mg/kg	>2000	Rat	REACH Registration	OECD 423			
	dermal	LD50 mg/kg	>2000	Rat	REACH Registration	OECD 402			
	inhalation (1 h) vapour	LC50 mg/l	>7380	Rat	REACH Registration				

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/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.



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11.2. 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].

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life.

CAS No	Chemical name										
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method				
64-17-5	ethanol, ethyl alcohol										
	Acute fish toxicity	LC50 mg/l	14200	96 h	Pimephales promelas (fathead minnow)	REACH Dossier	US EPA method E03-05				
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris	REACH Dossier	OECD 201				
	Acute crustacea toxicity	EC50 mg/l	5012	48 h	Ceriodaphnia spec	REACH Dossier	ASTM E729-80				
	Fish toxicity	NOEC	250 mg/l	5 d	Danio rerio (zebrafish)	REACH Dossier	OECD 212				
	Crustacea toxicity	NOEC	9,6 mg/l	9 d	Daphnia magna	REACH Dossier					
	Acute bacteria toxicity	EC50 mg/l ()	>1000	3 h	Activated sludge	REACH Dossier	OECD 209				
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	72 h	Desmodesmus subspicatus	REACH Registration	OECD 201				
	Acute crustacea toxicity	EC50	2,0 mg/l	48 h	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				
105-54-4	NATURAL ETHYL BUTYRATE										
	Acute fish toxicity	LC50 mg/l	>100	96 h	Danio rerio (zebrafish)	REACH Registration	OECD 203				
	Acute algae toxicity	ErC50	100 mg/l	72 h	Desmodesmus subspicatus	REACH Registration	OECD 201				
	Acute crustacea toxicity	EC50 mg/l	116,6	48 h	Daphnia magna (Big water flea)	REACH Registration	OECD 202				
	Fish toxicity	NOEC mg/l	1483	28 d	fish species (undefined)	REACH Registration					
	Crustacea toxicity	NOEC mg/l	28833	21 d	Daphnia magna (Big water flea)	REACH Registration					

12.2. Persistence and degradability

The product has not been tested.



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CAS No	Chemical name							
	Method	Value	d	Source				
	Evaluation		-	•				
64-17-5	ethanol, ethyl alcohol							
	OECD 301B	95%	28	REACH Dossier				
	Readily biodegradable (according to OECD criteria).						
	OECD 301B	84%	20	REACH Dossier				
	Readily biodegradable (according to OECD criteria).							
	OECD 301B	74%	5	REACH Dossier				
	Readily biodegradable (according to OECD criteria).							
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).							
105-54-4	NATURAL ETHYL BUTYRATE							
	OECD 301D	25%	7	REACH Registration				
	Moderately/partially biodegradable.							
	OECD 301D 53,18% 14 REACH Registration							
	Moderately/partially biodegradable.							
<u>'</u>	OECD 301D	55,9%	28	REACH Registration				
	Moderately/partially biodegradable.							

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,3
123-68-2	NATURAL ALLYL HEXANOATE (CAPROATE)	3,191
105-54-4	NATURAL ETHYL BUTYRATE	2,43

BCF

CAS No	Chemical name	BCF	Species	Source
64-17-5	ethanol, ethyl alcohol	1-4,5	Cyprinus carpio (Common Carp)	REACH Registration
123-68-2	NATURAL ALLYL HEXANOATE (CAPROATE)	102,3	Fish	REACH Registration
105-54-4	NATURAL ETHYL BUTYRATE	8	-	REACH Registration

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The product has not been tested.

12.6. 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.

12.7. Other adverse effects

No information available.



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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.

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused

products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused

products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3272

14.2. UN proper shipping name: ESTERS, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Special Provisions: 274 601
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3272 **14.2. UN** proper shipping name: ESTERS, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



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Classification code: F1
Special Provisions: 274 601
Limited quantity: 1 L
Excepted quantity: E2

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 3272

14.2. UN proper shipping name: ESTERS, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3272

14.2. UN proper shipping name: ESTERS, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 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



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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

Directive 2010/75/EU on industrial

100 % (820 g/l)

emissions:

Directive 2004/42/EC on VOC in

100 % (820 g/l)

paints and varnishes:

Information according to Directive

2012/18/EU (SEVESO III):

E1 Hazardous to the Aquatic Environment

Additional information: P5c

Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,12,14,15,16.



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Abbreviations and acronyms

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Eye Irrit: Eye irritation

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

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
DMEL: 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).

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure				
Flam. Liq. 2; H225	On basis of test data				
Acute Tox. 4; H302	Calculation method				
Eye Irrit. 2; H319	Calculation method				
Aquatic Acute 1; H400	Calculation method				
Aquatic Chronic 3; H412	Calculation method				



according to Regulation (EC) No 1907/2006

NATURAL ALLYL HEXANOATE (CAPROATE) 25%

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Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

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.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	For Flavour use for food and feed only	-	-	-	-	-	-	-	Flavour

 LCS: Life cycle stages
 SU: Sectors of use

 PC: Product categories
 PROC: Process categories

 ERC: Environmental release categories
 AC: Article categories

TF: Technical functions

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