

according to UK REACH Regulation

## NATURAL DIETHYL SUCCINATE

Revision date: 13.01.2025

Product code: 237700

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

## 1.1. Product identifier

NATURAL DIETHYL SUCCINATE

Substance name:	NATURAL DIETHYL SUCCINATE
CAS No:	123-25-1
EC No:	204-612-0

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

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

#### 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

#### GB CLP Regulation

This substance is not classified as hazardous in accordance with GB CLP Regulation.

## 2.2. Label elements

#### Additional advice on labelling

Label elements: none.

#### 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 identified as a substance of very high concern (SVHC) and is not subject to authorization according to REACH, Annex XIV.

#### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Sum formula:	C8 H14 O4
Molecular weight:	174,2 g/mol



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#### **Relevant ingredients**

CAS No	Chemical name	Chemical name			Quantity
	EC No	Index No		REACH No	
	Classification (GB CLP Regulation)				
123-25-1	NATURAL DIETHYL SUCCINATE	NATURAL DIETHYL SUCCINATE			
	204-612-0				

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

Specific Conc. Limits, M-factors and ATE					
CAS No	EC No	Chemical name	Quantity		
	Specific Conc. Limits, M-factors and ATE				
123-25-1	204-612-0 NATURAL DIETHYL SUCCINATE		100%		
dermal: LD50 = >5000 mg/kg; oral: LD50 = 8530 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

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

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

### 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

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.

#### 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. 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

Use personal protection equipment.



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## 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

## 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.

#### 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

No special measures are necessary.

## Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. 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.

#### Hints on joint storage

No special measures are necessary.

#### 7.3. Specific end use(s)

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

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **DNEL/DMEL** values

CAS No	Substance		-	
DNEL type		Exposure route	Effect	Value
123-25-1	NATURAL DIETHYL SUCCINATE			
Worker DNEL	, long-term	inhalation	systemic	16,4 mg/m³
Worker DNEL, long-term		dermal	systemic	4,67 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,9 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	1,67 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	1,67 mg/kg bw/day



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#### **PNEC** values

CAS No	Substance			
Environmental	compartment	Value		
123-25-1	NATURAL DIETHYL SUCCINATE			
Freshwater		0,31 mg/l		
Marine water		0,08 mg/l		
Freshwater sediment		1,77 mg/kg		
Marine sediment		0,429 mg/kg		
Micro-organisms in sewage treatment plants (STP)		12,33 mg/l		
Soil		0,173 mg/kg		

### 8.2. Exposure controls

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye protection/face protection.

### 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.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	Colourless to pale yellow	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		218 °C
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		90,6 °C
Auto-ignition temperature:		431 °C
Decomposition temperature:		not determined
pH-Value:		4,7
Viscosity / kinematic:		1,765 mm²/s
(at 40 °C)		
Water solubility:		20,1 g/l
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		0,439 hPa
(at 20 °C)		
Vapour pressure:		1,33 hPa
(at 50 °C)		



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Density: Relative vapour density: Particle characteristics: 1,04 g/cm<sup>3</sup> not determined not applicable

### 9.2. Other information

## Information with regard to physical hazard classes Explosive properties The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

### **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 hazard classes as defined in GB CLP Regulation

### Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
123-25-1	NATURAL DIETHYL SUCCINATE					
		LD50 mg/kg	8530	Rat	REACH Registration	
	dermal	LD50 mg/kg	>5000	Rabbit	REACH Registration	

#### 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.



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### 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.

## Other information

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

## **SECTION 12: Ecological information**

### 12.1. Toxicity

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
123-25-1	NATURAL DIETHYL SUCCINATE						
	Acute fish toxicity	LC50 mg/l	89,7		Pimephales promelas (fathead minnow)	REACH Registration	
	Acute algae toxicity	ErC50 mg/l	48,9	72 h	Fresh water algae	REACH Registration	
	Acute crustacea toxicity	EC50 mg/l	143,8	-	freshwater invertebrates	REACH Registration	

## 12.2. Persistence and degradability

Partition coefficient n-octanol/water

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

CAS No	Chemical name	Log Pow
123-25-1	NATURAL DIETHYL SUCCINATE	1,19

#### 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

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.

### 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.



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#### List of Wastes Code - residues/unused products

160306 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes other than those mentioned in 16 03 05

### List of Wastes Code - used product

160306 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes other than those mentioned in 16 03 05

### List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

## 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:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Marine transport (IMDG)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user	
No dangerous good in sense of this trai	nsport regulation.
14.7. Maritime transport in bulk according to	IMO instruments
No dangerous good in sense of this trai	nsport regulation.
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture
EU regulatory information	
Directive 2010/75/EU on industrial emissions:	100 % (1040 g/l)

Directive 2004/42/EC on VOC in

paints and varnishes:

100 % (1040 g/l)



A X Sofety Data Sheet		Axxence Aromatic GmbH
É N	Safety Data Sheet	
C E	according to UK REACH Regulation	
NATURAL DIETHYL SUCCINATE		
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Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
National regulatory information		
Water hazard class (D):	2 - obviously hazardous to water	
15.2. Chemical safety assessment For this substance a chemical safet	y assessment has not been carried out.	
SECTION 16: Other information		
UN: United Nations EC/EEC: European Community/Eur EU: European Union CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Leve PNEC: Predicted No Effect Concen	nd Authorization of Chemicals of Classification, Labelling and Packaging of Chemic ropean Economic Community	als
ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50% NOEC: No Observed Effect Concer	6, growth rate	
	mulative port des marchandises dangereuses par Route	
RID: Regulations concerning the int ADN: European Agreement concern (Accord européen relatif au transpo intérieures)	he International Carriage of Dangerous Goods by Roa ternational carriage of dangerous goods by rail ning the International Carriage of Dangerous Goods b rt international des marchandises dangereuses par vo	y Inland Waterways
IMDG: International Maritime Code EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport As DGR: Dangerous Goods Regulation ICAO: International Civil Aviation O	sociation	
IBC: Intermediate Bulk Container VOC: volatile organic compound SVHC: Substance of Very High Cor	ee: ECHA Guidance on information requirements and	chemical safety
The information is based on the present level of our knowledge. It does not, however, give assurance of		

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

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for adhering to existing laws and regulations.