

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 1 of 11

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

#### 1.1. Product identifier

NATURAL GERANYL ACETATE

Substance name: NATURAL GERANYL ACETATE  
CAS No: 105-87-3  
EC No: 203-341-5  
UFI: MWUD-SQ7J-P00E-7355

#### 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: Andreas Goertz      Telephone: + 49 2822 68561 143  
E-mail: andreas.goertz@axxence.com  
Internet: www.axxence.de  
Responsible Department: QM - Regulatory Affairs - Safety Management

#### 1.4. Emergency telephone number:

+49 2822 68561 99

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No 1272/2008

Skin Irrit. 2; H315  
Skin Sens. 1; H317  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



##### Hazard statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 2 of 11

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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 identified as SVHC (substance of very high concern) and is not subject to authorisation according to Annex XIV of REACH.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Sum formula:	C <sub>12</sub> H <sub>20</sub> O <sub>2</sub>
Molecular weight:	196,28

#### Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
105-87-3	NATURAL GERANYL ACETATE			100 %
	203-341-5			
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H317 H412			

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		
105-87-3	203-341-5	NATURAL GERANYL ACETATE	100 %
	dermal: LD50 = 5460 mg/kg; oral: LD50 = 6330 mg/kg		

## SECTION 4: First aid measures

### 4.1. 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 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

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 3 of 11

### 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. 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

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

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

No special measures are necessary.

#### 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

#### 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)

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 4 of 11

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	Name of agent			
DNEL type		Exposure route	Effect	Value
105-87-3	NATURAL GERANYL ACETATE			
Worker DNEL, long-term		inhalation	systemic	62,59 mg/m³
Worker DNEL, long-term		dermal	systemic	35,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	15,4 mg/m³
Consumer DNEL, long-term		dermal	systemic	17,75 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	8,9 mg/kg bw/day

##### PNEC values

CAS No	Name of agent	
Environmental compartment	Value	
105-87-3	NATURAL GERANYL ACETATE	
Freshwater	0,00372 mg/l	
Freshwater (intermittent releases)	0,0372 mg/l	
Marine water	0,000372 mg/l	
Freshwater sediment	0,442 mg/kg	
Marine sediment	0,0442 mg/kg	
Micro-organisms in sewage treatment plants (STP)	8 mg/l	
Soil	0,0859 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. Suitable gloves type: Disposable gloves + NBR (Nitrile rubber)

##### Skin protection

Use of protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 5 of 11

### SECTION 9: Physical and chemical properties

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

Physical state:	Liquid	
Colour:	colourless	
		<b>Test method</b>
Melting point/freezing point:	<-100 °C	ANSI/ASTM D3451-76
Boiling point or initial boiling point and boiling range:	244 °C	
Flammability:	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	104 °C	
Auto-ignition temperature:	252 °C	
Decomposition temperature:	not determined	
pH-Value:	not determined	
Viscosity / kinematic: (at 40 °C)	1,88 mm²/s	
Water solubility: (at 20 °C)	0,029 g/L	
Solubility in other solvents	not determined	
Partition coefficient n-octanol/water:	4,04	
Vapour pressure: (at 20 °C)	0,013 hPa	
Vapour pressure: (at 50 °C)	0,4 hPa	
Density (at 20 °C):	0,91 g/cm³	
Relative vapour density: (at 20 °C)	6,78	
Particle characteristics:	not applicable	

#### 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:	0%
Solid content:	0%
Viscosity / dynamic: (at 20 °C)	2,47 mPa·s

### 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

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 6 of 11

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 Regulation (EC) No 1272/2008

#### Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
105-87-3	NATURAL GERANYL ACETATE				
	oral	LD50 mg/kg 6330	Rat	REACH registration	
	dermal	LD50 mg/kg 5460	Rabbit	REACH registration	

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

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

#### Sensitising effects

May cause an allergic skin reaction. (NATURAL GERANYL ACETATE)

#### 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

This substance does not have endocrine disrupting properties with respect to humans.

#### Other information

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

## SECTION 12: Ecological information

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 7 of 11

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
105-87-3	NATURAL GERANYL ACETATE					
	Acute fish toxicity	LC50 mg/l	68,12	96 h	Leuciscus idus (golden orfe)	REACH registration DIN 38412, part L15
	Acute algae toxicity	ErC50 mg/l	3,72	72 h	Desmodesmus subspicatus	REACH registration OECD 201
	Acute crustacea toxicity	EC50 mg/l	14,1	48 h	Daphnia magna (Big water flea)	REACH registration EU Method C.2
	Algae toxicity	NOEC	0,6 mg/l	3 d	Desmodesmus subspicatus	REACH registration OECD 201
	Acute bacteria toxicity	EC50 ( )	800 mg/l	0,5 h	Activated sludge	REACH registration ISO 8192

### 12.2. Persistence and degradability

The product has not been tested.

The product has not been tested.				
CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
105-87-3	NATURAL GERANYL ACETATE			
	EEC Directive 79-831, Annex V, Part C, 5.2	>70%	28	REACH registration
	Readily biodegradable (according to OECD criteria).			

### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
105-87-3	NATURAL GERANYL ACETATE	4,04

### 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 REACH, annex XIII.

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.

#### 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

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 8 of 11

### 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:** 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.  
**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.

### 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 information available.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

### 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

Directive 2004/42/EC on VOC in paints and varnishes: 100 % (910 g/l)

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 9 of 11

### Additional information

To follow: 850/2004/EC, 1107/2009/EC, 649/2012/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
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 10 of 11

### Abbreviations and acronyms

Skin Irrit: Skin irritation  
 Skin Sens: Skin sensitisation  
 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).  
 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

### Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### NATURAL GERANYL ACETATE

Revision date: 13.06.2024

Product code: 250900

Page 11 of 11

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		-	4	28	-	-	-	-	Flavour

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories