

# Safety Data Sheet

## Geranyl Acetate 60

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### 1. Identification

#### Product identifier used on the label

## Geranyl Acetate 60

#### Recommended use of the chemical and restriction on use

Recommended use\*: Chemical, Chemical for detergents, Cosmetic and oral care chemical, flavoring substance

Unsuitable for use: Not intended for sale to or use by the general public.

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Synonyms: Reaction mass of geranyl acetate and neryl acetate

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### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Aquatic Chronic	3	Hazardous to the aquatic environment - chronic
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Skin Sens.	1	Skin sensitization

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Skin Corr./Irrit.

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Skin corrosion/irritation

### Label elements

Pictogram:



Signal Word:  
Warning

Hazard Statement:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves.
P261	Avoid breathing mist or vapour or spray.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P332 + P313	If skin irritation occurs: Get medical attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501	Dispose of contents/container in accordance with local regulations.
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### Hazards not otherwise classified

No data available.

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## 3. Composition / Information on Ingredients

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

geranylacetate

CAS Number: 105-87-3  
Content (W/W): 50.0 - 75.0%  
Synonym: (E)-3,7-Dimethyl-2,6-octadien-1-ol acetate; Geranyl acetate

nerylacetate

CAS Number: 141-12-8  
Content (W/W): 25.0 - 50.0%  
Synonym: (Z)-3,7-Dimethyl-2,6-octadien-1-ol acetate; Neryl acetate

citronellyl acetate

CAS Number: 150-84-5

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Content (W/W): 1.0 - 5.0%  
Synonym: 3-Octen-1-ol, 3,7-dimethyl-, acetate

2,6-Octadien-1-ol, 3,7-dimethyl-, (E)-  
CAS Number: 106-24-1  
Content (W/W): 0.0 - 1.0%  
Synonym: (E)-3,7-Dimethyl-2,6-octadien-1-ol

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### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

##### If on skin:

Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Seek medical attention.

##### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

##### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

*Information on: geranylacetate*

*Symptoms: Overexposure may cause: Eye irritation, skin irritation, erythema, allergic contact dermatitis, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

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#### Indication of any immediate medical attention and special treatment needed

##### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
water spray, foam, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:  
water jet

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### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon oxides, harmful vapours

The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Cool endangered containers with water-spray.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures, see section 8. Ensure adequate ventilation. Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing.

### Environmental precautions

May be harmful to the aquatic environment. Prevent entry into drains and surface waters.

### Methods and material for containment and cleaning up

For large amounts: Dike spillage. Pump off product.

For residues: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).

Dispose of absorbed material in accordance with regulations.

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## 7. Handling and Storage

### Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Wear suitable protective clothing and eye/face protection. Avoid contact with the skin, eyes and clothing. Keep container tightly sealed. This product may cause irritations; wash your hands after every contact.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

### Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Protect contents from the effects of light. Keep under inert gas.

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### 8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

#### Advice on system design:

Ensure adequate ventilation. Local exhaust ventilation preferred.

#### Personal protective equipment

##### Respiratory protection:

Breathing protection if gases/vapours are formed. Wear a NIOSH-certified (or equivalent) respirator as necessary.

##### Hand protection:

Chemical resistant protective gloves

##### Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

##### Body protection:

Body protection must be chosen based on level of activity and exposure.

##### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid contact with skin. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

### 9. Physical and Chemical Properties

Form:	liquid	
Odour:	sweetish, fruity, flowery, fresh	
Odour threshold:	< 100 ppm	
Colour:	colourless, clear	
pH value:	No data available.	
Melting point:	< -100 °C ( 1,013 hPa)	
Freezing point:	No data available.	
Boiling point:	244 °C ( 1,013 hPa)	(measured)
	The product has not been tested., The statements are based on the properties of the individual components.	
Flash point:	114 °C	(Directive 92/69/EEC, A.9, closed cup)
Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	

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Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	252 °C The product has not been tested. The statement has been derived from the properties of the individual components.	(DIN EN 14522)
Vapour pressure:	0.013 hPa ( 20 °C) The product has not been tested. The statement has been derived from the properties of the individual components.	(OECD Guideline 104)
Density:	0.915 g/cm <sup>3</sup> ( 20 °C, 1,013 hPa) The product has not been tested., The statements are based on the properties of the individual components.	
Vapour density:	> 1 ( 20 °C) Heavier than air.	(calculated)
Partitioning coefficient n-octanol/water (log Pow):	4.04 The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.	(OECD Guideline 117)
Self-ignition temperature:	Based on its structural properties the product is not classified as self-igniting.	
Thermal decomposition:	approx. 260 °C (DSC (OECD 113))	
Viscosity, dynamic:	2.47 mPa.s ( 20 °C) 1.68 mPa.s ( 40 °C)	
Viscosity, kinematic:	No data available.	
Particle size:	The substance / product is marketed or used in a non solid or granular form.	
Solubility in water:	29 mg/l ( 20 °C) The product has not been tested. The statement has been derived from the properties of the individual components.	
Solubility (qualitative):	readily soluble solvent(s): organic solvents,	
Molar mass:	No data available.	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

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Corrosive effects to metal are not anticipated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.
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### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

Avoid extreme temperatures. Avoid all sources of ignition: heat, sparks, open flame. Avoid electrostatic discharge.

### Incompatible materials

peroxides

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

(DSC (OECD 113))

Thermal decomposition:

approx. 260 °C (DSC (OECD 113))

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Oral

Type of value: LD50

Species: rat

Value: 6,330 mg/kg

Type of value: LD50

Species: rat

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Value: > 5 mL/kg

The statements are based on the properties of the individual components.

### Inhalation

No data available.

### Dermal

Type of value: LD50

Species: rabbit

Value: > 5,460 mg/kg

The statements are based on the properties of the individual components.

### Assessment other acute effects

Assessment of STOT single:

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

### Irritation / corrosion

Assessment of irritating effects: Skin contact causes irritation. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Skin

Species: rabbit

Result: Irritant.

Method: Draize test

Species: rabbit

Result: Irritant.

Method: OECD Guideline 404

### Eye

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

### Sensitization

Assessment of sensitization: Sensitization after skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

Species: mouse

Result: sensitizing

Method: OECD Guideline 429

### Aspiration Hazard

No data available.

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: No substance-specific organotoxicity was observed after repeated administration to animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Genetic toxicity



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**Assessment of mutagenicity:** In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays. The product has not been tested. The statement has been derived from the properties of the individual components.

### Carcinogenicity

**Assessment of carcinogenicity:** In long-term studies in rats and mice in which the substance was given by gavage, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Reproductive toxicity

**Assessment of reproduction toxicity:** The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Teratogenicity

**Assessment of teratogenicity:** In animal studies the substance did not cause malformations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

**Assessment of aquatic toxicity:**

Acutely toxic for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### Toxicity to fish

LC50 (96 h) 68.12 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from substances/products of a similar structure or composition.

#### Aquatic invertebrates

EC50 (48 h) 14.1 mg/l, *Daphnia magna* (Directive 92/69/EEC, C.2, static)

The statement of the toxic effect relates to the analytically determined concentration.

#### Aquatic plants

EC50 (72 h) 3.72 mg/l (growth rate), *Desmodium subspicatus* (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration.

No observed effect concentration (72 h) 0.585 mg/l (growth rate), *Desmodium subspicatus* (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration.

#### Chronic toxicity to fish

No data available.

#### Chronic toxicity to aquatic invertebrates

No data available.

#### Assessment of terrestrial toxicity

No data available concerning terrestrial toxicity.

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### Microorganisms/Effect on activated sludge

#### Toxicity to microorganisms

DIN EN ISO 8192 static

activated sludge, domestic/EC20 (30 min): approx. 800 mg/l

The details of the toxic effect relate to the nominal concentration.

### Persistence and degradability

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

Readily biodegradable (according to OECD criteria).

#### Elimination information

> 70 % BOD of the ThOD (28 d) (other) (aerobic, activated sludge, domestic, non-adapted)

#### Assessment of stability in water

In contact with water the substance will hydrolyse slowly.

#### Information on Stability in Water (Hydrolysis)

t<sub>1/2</sub> 1,539 h (25 °C, pH value 7), (OECD Guideline 111)

### Bioaccumulative potential

#### Assessment bioaccumulation potential

Significant accumulation in organisms is not to be expected.

### Mobility in soil

#### Assessment transport between environmental compartments

The substance will rapidly evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is expected.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Do not discharge into waterways or sewer systems without proper authorization. Dispose of in accordance with national, state and local regulations.

### **Container disposal:**

Dispose of in accordance with national, state and local regulations.

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## 14. Transport Information

### **Land transport**

USDOT

Not classified as a dangerous good under transport regulations

### **Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

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**Air transport**  
IATA/ICAO

Not classified as a dangerous good under transport regulations

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## 15. Regulatory Information

### Federal Regulations

#### **Registration status:**

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### **NFPA Hazard codes:**

Health: 2 Fire: 1 Reactivity: 0 Special:

#### **HMIS III rating**

Health: 2 Flammability: 1 Physical hazard: 0

#### **Assessment of the hazard classes according to UN GHS criteria (most recent version):**

Skin Corr./Irrit.	2	Skin corrosion/irritation
Skin Sens.	1	Skin sensitization
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

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## 16. Other Information

#### **SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2022/10/18

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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