

## Safety data sheet

Page: 1/12

BASF Safety data sheet  
Date / Revised: 31.01.2025  
Product: **Geraniol Extra**

Version: 14.1

(30035071/SDS\_GEN\_SG/EN)

Date of print: 08.10.2025

### 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
**Geraniol Extra**

Use: Chemical, Chemical for detergents, Cosmetic and oral care chemical, flavoring substance

Manufacturer/supplier:

BASF South East Asia Pte Ltd.  
128 Beach Road #18-01  
Guoco Midtown, 189773, Singapore  
Telephone: +65 8322 4420  
Telefax number: +65 6 334-0330  
E-mail address: benny.zou@basf.com

Emergency information:

Singapore Emergency Toll-Free Number:  
Telephone: 1800-723-1361  
International emergency number:  
Telephone: +49 180 2273-112

### 2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat.5 (oral)  
Skin corrosion/irritation: Cat.2  
Serious eye damage/eye irritation: Cat.1  
Skin sensitization: Cat.1  
Hazardous to the aquatic environment - acute: Cat.3

Label elements and precautionary statement:

Pictogram:

BASF Safety data sheet  
Date / Revised: 31.01.2025  
Product: **Geraniol Extra**

Version: 14.1

(30035071/SDS\_GEN\_SG/EN)

Date of print: 08.10.2025



Signal Word:  
Danger

Hazard Statement:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H303	May be harmful if swallowed.
H317	May cause an allergic skin reaction.
H402	Harmful to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/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):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
------	---

Other hazards which do not result in classification:  
High risk of slipping due to leakage/spillage of product.

---

### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: Substance

fragrances

2,6-Octadien-1-ol, 3,7-dimethyl-, (E)-  
CAS Number: 106-24-1

#### Hazardous ingredients

BASF Safety data sheet  
Date / Revised: 31.01.2025  
Product: **Geraniol Extra**

Version: 14.1

(30035071/SDS\_GEN\_SG/EN)

Date of print: 08.10.2025

2,6-Octadien-1-ol, 3,7-dimethyl-, (E)-

Content (W/W):  $\geq 75\%$  -  $\leq 100\%$ 

CAS Number: 106-24-1

Acute Tox.: Cat. 5 (oral)

Skin Corr./Irrit.: Cat. 2

Eye Dam./Irrit.: Cat. 1

Aquatic Acute: Cat. 3

Skin Sens.: Cat. 1

2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-

Content (W/W):  $\geq 0.3\%$  -  $< 3\%$ 

CAS Number: 106-25-2

Acute Tox.: Cat. 5 (oral)

Skin Irrit.: Cat. 2

Eye Irrit.: Cat. 2A

Skin Sens.: Cat. 1B

Aquatic Acute: Cat. 2

citronellal

Content (W/W):  $> 0\%$  -  $< 0.2\%$ 

CAS Number: 106-23-0

Flam. Liq.: Cat. 4

Acute Tox.: Cat. 5 (oral)

Acute Tox.: Cat. 5 (dermal)

Skin Irrit.: Cat. 2

Eye Irrit.: Cat. 2A

Skin Sens.: Cat. 1B

Aquatic Acute: Cat. 2

---

## 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

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

On ingestion:

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

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

---

## 5. Fire-Fighting Measures

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

Unsuitable extinguishing media for safety reasons:  
water jet

Specific hazards:  
carbon oxides, harmful vapours  
The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:  
Wear self-contained breathing apparatus and chemical-protective clothing.

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.

---

## 6. Accidental Release Measures

Personal precautions:  
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:  
Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking 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.

---

## 7. Handling and Storage

### 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. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

BASF Safety data sheet  
Date / Revised: 31.01.2025  
Product: **Geraniol Extra**

Version: 14.1

(30035071/SDS\_GEN\_SG/EN)

Date of print: 08.10.2025

### Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect from the effects of light.

---

## 8. Exposure controls and personal protection

### Components with occupational exposure limits

No substance specific occupational exposure limits known.

### Personal protective equipment

#### Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

#### Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### 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 the skin, eyes and clothing. 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:	oil
Colour:	colourless to pale yellow
Odour:	pleasant, sweetish
Odour threshold:	< 100 ppm
pH value:	7

BASF Safety data sheet  
 Date / Revised: 31.01.2025  
 Product: **Geraniol Extra**

Version: 14.1

(30035071/SDS\_GEN\_SG/EN)

Date of print: 08.10.2025

Melting point:	-15 °C Literature data.	
Boiling point:	> 220 °C (1,013.25 hPa) Cannot be distilled without decomposition at normal pressure.	
Boiling range:	229 - 230 °C (1,013 hPa) The substance / product decomposes.	
Flash point:	108 °C	(ISO 2719, closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability (solid/gas):	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.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	250 °C	(Directive 92/69/EEC, A.15)
Thermal decomposition:	>= 280 °C	(DSC (DIN 51007))
Self ignition:	Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
Self heating ability:	not applicable, the product is a liquid	
SADT:	> 75 °C	
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	
Vapour pressure:	1 hPa (70.6 °C) 5 hPa (95 °C) 10 hPa (106.9 °C) 0.0000796 hPa (20 °C) Extrapolated value	

BASF Safety data sheet  
Date / Revised: 31.01.2025  
Product: **Geraniol Extra**

Version: 14.1

(30035071/SDS\_GEN\_SG/EN)

Date of print: 08.10.2025

Density:	0.89 g/cm <sup>3</sup> (20 °C) Literature data.	
Relative density:	0.89 (20 °C) Literature data.	
Relative vapour density (air):	5.31 (20 °C) Heavier than air.	(calculated)
Solubility in water:	Literature data. 0.1 g/l (25 °C)	
Partitioning coefficient n-octanol/water (log Pow):	2.6 (25 °C)	(OECD Guideline 117)
Adsorption/water - soil:	KOC: 70.79; log KOC: 1.85	(calculated)
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Viscosity, dynamic:	8.21 mPa.s (20 °C) Literature data.	
Viscosity, kinematic:	No data available.	
Molar mass:	154.25 g/mol	

#### Particle characteristics

Particle size distribution:	The substance / product is marketed or used in a non solid or granular form. -	
Specific Surface Area:	No data available.	
Particle Shape:	No data available.	
Dustiness:	No data available.	

---

## 10. Stability and Reactivity

Conditions to avoid:  
See SDS section 7 - Handling and storage.

Thermal decomposition:  $\geq 280$  °C (DSC (DIN 51007))

Substances to avoid:  
strong oxidizing agents, acids, bases

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:

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

Hazardous decomposition products:

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

Chemical stability:

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

Reactivity:

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

---

## 11. Toxicological Information

### Routes of exposure

#### Acute oral toxicity

Experimental/calculated data:

LD50rat (oral): 3,600 mg/kg

#### Acute inhalation toxicity

(by inhalation): No data available.

#### Acute dermal toxicity

LD50 rabbit (dermal): > 5,000 mg/kg (other)

#### Assessment of acute toxicity

Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact.

#### Symptoms

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

(Further) symptoms and / or effects are not known so far

#### Irritation

Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)

#### Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Experimental/calculated data:

mouse: skin sensitizing (OECD Guideline 429)



### **Germ cell mutagenicity**

Assessment of mutagenicity:

The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition. Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

### **Carcinogenicity**

Assessment of carcinogenicity:

In long-term animal studies in which the substance was given by gavage in high doses, 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:

Animal studies gave no indication of a fertility impairing effect at doses which were not toxic to the parental animals. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

### **Developmental toxicity**

Assessment of teratogenicity:

In animal studies the substance did not cause malformations.

### **Specific target organ toxicity (single exposure)**

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals. After repeated exposure the prominent effect is local irritation.

### **Aspiration hazard**

No aspiration hazard expected.

---

## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

**Toxicity to fish:**

LC50 (96 h) approx. 22 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 84/449/EWG, C.1, static)  
The details of the toxic effect relate to the nominal concentration.

**Aquatic invertebrates:**

EC50 (48 h) 10.8 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)  
The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Aquatic plants:**

EC50 (72 h) 13.1 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)  
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The statement of the toxic effect relates to the analytically determined concentration.

**Microorganisms/Effect on activated sludge:**

EC50 (30 min) 70 mg/l, activated sludge, domestic (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C, aerobic)

EC10 (16 h) 2,544 mg/l, *Pseudomonas putida* (DIN 38412 Part 8, aquatic)

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

**Chronic toxicity to fish:**

Study scientifically not justified.

**Chronic toxicity to aquatic invertebrates:**

Study scientifically not justified.

**Assessment of terrestrial toxicity:**

No data available.

Study scientifically not justified.

**Mobility****Assessment transport between environmental compartments:**

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

Adsorption to solid soil phase is not expected.

**Persistence and degradability****Elimination information:**

90 - 100 % DOC reduction (3 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic)

**Assessment of stability in water:**

According to structural properties, hydrolysis is not expected/probable.

**Bioaccumulation potential****Assessment bioaccumulation potential:**

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

---

## 13. Disposal Considerations

Observe national and local legal requirements.

---

## 14. Transport Information

### Domestic transport:

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Sea transport

#### IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

### Air transport

#### IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

## 15. Regulatory Information

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

---

## 16. Other Information

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

---

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.