

Safety data sheet

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BASF Safety data sheet

Date / Revised: 27.01.2025 Version: 13.0

Product: Geraniol 60

(30035070/SDS_GEN_SG/EN)

Date of print: 21.10.2025

1. Substance/preparation and manufacturer/supplier identification

Product name:

Geraniol 60

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:

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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 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):

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:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

Substance nature: Substance

Isomer blend based on:

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

CAS Number: 106-24-1

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

CAS Number: 106-25-2

Hazardous ingredients

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

Content (W/W): >= 50 % - < 75 % Acute Tox.: Cat. 5 (oral) CAS Number: 106-24-1 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): >= 25 % - < 50 % Acute Tox.: Cat. 5 (oral) CAS Number: 106-25-2 Skin Irrit.: Cat. 2

> Eye Irrit.: Cat. 2A Skin Sens.: Cat. 1B Aquatic Acute: Cat. 2

3,7-Dimethyl-octen-6-ol-1

Skin Irrit.: Cat. 2 Eye Irrit.: Cat. 2A Skin Sens.: Cat. 1B Aquatic Acute: Cat. 2

3,7-dimethyl-2,6-octadien-1-al

Content (W/W): >= 0.1 % - < 1 %

CAS Number: 5392-40-5 Acute Tox.: Cat. 5 (dermal)

Skin Irrit.: Cat. 2 Eye Irrit.: Cat. 2A Aquatic Acute: Cat. 2 Skin Sens.: Cat. 1

Acute Tox.: Cat. 5 (oral)

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

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:

Rinse mouth and then drink 200-300 ml of water.

Note to physician:

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

For large amounts: Dike spillage. Pump off product.

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.

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Protection against fire and explosion:

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

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

3,7-dimethyl-2,6-octadien-1-al, 5392-40-5;

TWA value 5 ppm (ACGIHTLV), Inhalable fraction and vapor Skin Designation (ACGIHTLV), Inhalable fraction and vapor Danger of cutaneous absorption Skin Designation (ACGIHTLV), Inhalable fraction and vapor Danger of cutaneous absorption

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 (cage goggles) (e.g. EN 166) and face shield.

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.

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9. Physical and Chemical Properties

Form: liquid Colour: colourless Odour: flowery Odour threshold: < 100 ppm

pH value:

not applicable

< -15 °C Melting temperature:

(1,013 hPa)

The statements are based on the properties of the individual

components.

225 - 230 °C Boiling point:

(1,008 - 1,013 hPa)

The statements are based on the properties of the individual

components.

Flash point: 107 - 108 °C (Directive 92/69/EEC, A.9)

The product has not been tested. The statement has been derived from

the properties of the individual

components.

Evaporation rate:

Value can be approximated from Henry's Law Constant or vapor

pressure.

Flammability (solid/gas): hardly combustible

Lower explosion limit:

(derived from flash point)

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: 246 - 250 °C (Directive 92/69/EEC, A.15)

The product has not been tested. The statement has been derived from

the properties of the individual

components.

Thermal decomposition: approx. 280 °C

(DSC (DIN 51007))

Self ignition:

Based on its structural properties the

product is not classified as self-

igniting.

Test type: Spontaneous selfignition at room-temperature.

Self heating ability:

not applicable, the product is a liquid

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SADT: No data available.

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: 0.000076 - 0.01 hPa

(20 °C)

The product has not been tested.
The statement has been derived from

the properties of the individual

components.

Density: 0.87 - 0.89 g/cm3

(20 °C)

The statements are based on the properties of the individual

components.

Relative density: 0.87 - 0.89

(20 °C)

Literature data.

Relative vapour density (air):> 1 (calculated)

(20 °C)

Heavier than air.

Solubility in water: The statements are based on the

properties of the individual

components. 100 - 769 mg/l (20 °C)

Solubility (qualitative) solvent(s): organic solvents

soluble

Partitioning coefficient n-octanol/water (log Pow): 2.7 (OECD Guideline 117)

(20 °C)

Information based on the main

component/s.

Adsorption/water - soil: KO

KOC: 70.79; log KOC: 1.85

Surface tension:

Based on chemical structure, surface

(calculated)

activity is not to be expected.

Viscosity, dynamic: 6.75 - 8.21 mPa.s

(20 °C)

Viscosity, kinematic:

No data available.

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.

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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: approx. 280 °C (DSC (DIN 51007))

Substances to avoid:

strong oxidizing agents, acids, bases

Corrosion to metals: Corrosive effects to metal are not anticipated.

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

The product has not been tested. The statement has been derived from the properties of the individual components.

Acute inhalation toxicity

(by inhalation): No data available.

Acute dermal toxicity

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

The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment of acute toxicity

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

Symptoms

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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)

The product has not been tested. The statement has been derived from the properties of the individual components.

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

The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Experimental/calculated data:

mouse: skin sensitizing (OECD Guideline 429)

The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity:

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. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

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:

Repeated dermal uptake of the substance did not cause damage to the reproductive organs. The results were determined in a Screening test (OECD 421/422).

Developmental toxicity

Assessment of teratogenicity:

In animal studies the substance did not cause malformations.

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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 organtoxicity was observed after repeated administration to animals. After repeated exposure the prominent effect is local irritation. The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

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

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. The product has not been tested. The statement has been derived from the properties of the individual components.

LC50 (96 h) 3.2 mg/l, Pimephales promelas (EPA 72-1, Flow through.) 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.

Aquatic plants:

EC50 (72 h) 13.1 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static) The details of the toxic effect relate to the nominal 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)

The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity to fish:

Study scientifically not justified.

Chronic toxicity to aquatic invertebrates:

Study scientifically not justified.

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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) The product has not been tested. The statement has been derived from the properties of the individual components.

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.

Bioaccumulation potential:

No data available.

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
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

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

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Not applicable Packing group: 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 Not applicable Proper shipping name: Transport hazard class(es): Not applicable Not applicable Packing group: Environmental hazards: Not applicable Special precautions for None known

user

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.