

## Chemical Safety Data Sheet MSDS / SDS

## Nerolidol

Revision Date:2026-03-21 Revision Number:1

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

## Product identifier

Product name : Nerolidol  
CBnumber : CB2206877  
CAS : 7212-44-4  
EINECS Number : 230-597-5  
Synonyms : 1,6,10-dodecatrien-3-ol,3,7,11-trimethyl- ;nerolido

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

## Company Identification

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

## SECTION 2: Hazards identification

## GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Warning

## Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continuerinsing.

## Hazard statements

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

## SECTION 3: Composition/information on ingredients

### Substance

Product name	: Nerolidol
Synonyms	: 1,6,10-dodecatrien-3-ol,3,7,11-trimethyl- ;nerolido
CAS	: 7212-44-4
EC number	: 230-597-5
MF	: C15H26O
MW	: 222.37

---

## SECTION 4: First aid measures

### General advice

Show this safety data sheet to the doctor in attendance.

### If inhaled

After inhalation: fresh air.

### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

### Protection of first-aiders

For personal protection see section 8.

### Notes to physician

No data available

---

## SECTION 5: Firefighting measures

### Suitable extinguishing media

Carbon dioxide (CO2) Foam Dry powder

## Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

## Specific hazards during fire fighting

Combustible. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

## Hazardous combustion products

Carbon oxides

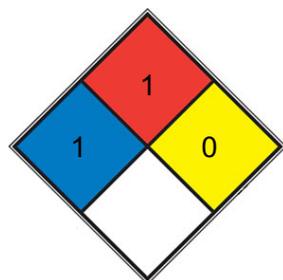
## Specific extinguishing methods

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## NFPA 704



**HEALTH** 1 Exposure would cause irritation with only minor residual injury (e.g. [acetone](#), sodium bromate, potassium chloride)

Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion

**FIRE** 1 can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93.3 °C (200 °F). (e.g. [mineral oil](#), ammonia)

**REACT** 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, [N<sub>2</sub>](#))

SPEC.

HAZ.

---

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: For personal protection see section 8.

### Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

---

## SECTION 7: Handling and storage

### Handling

#### Avoidance of contact

Strong oxidizing agents

### Storage

#### Further information on storage conditions

Tightly closed.

#### Storage class

10, Combustible liquids

#### Recommended storage temperature

Recommended storage temperature see product label.

---

## SECTION 8: Exposure controls/personal protection

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Engineering measures

No data available

### Personal protective equipment

#### Respiratory protection

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

#### Recommended Filter

Filter A (acc. to DIN 3181) for vapours of organic

#### type

compounds

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety glasses

#### Skin and body protection

protective clothing

#### Hand protection

**Material**

Nitrile rubber

**Break through time**

480 min

**Glove thickness**

0.4 mm

**Protective index**

Full contact

**Manufacturer**

Camatril® (KCL 730 / Aldrich Z677442, Size M)

**Material**

butyl-rubber

**Break through time**

120 min

**Glove thickness**

0.7 mm

**Protective index**

Splash contact

**Manufacturer**

Butoject® (KCL 898)

**Remarks**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D- 36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

---

## SECTION 9: Physical and chemical properties

**Information on basic physicochemical properties**

liquid (20 °C , 1,013 hPa)

**Color**

colourless

**Odor**

at 100.00 %. floral green waxy citrus woody

**Odor Threshold**

No data available

**pH**

No data available

**Melting point/ range**

-90 °C point Method: OECD Test Guideline 102

GLP: yes

**Boiling point/boiling range**

114 °C (1 hPa)

Method: lit.

**Flash point**

128 °C (1,013 hPa)

Method: ISO 2719, closed cup

GLP: yes

**Evaporation rate**

No data available

**Flammability (solid, gas)**

No data available

**Flammability (liquids)**

No data available

**Burning rate**

No data available

**Upper explosion limit / Upper flammability limit**

0.7-4.5%(V)

**Lower explosion limit / Lower flammability limit**

0.7-4.5%(V)

**Vapor pressure**

< 0.1 hPa (20 °C)

Method: OECD Test Guideline 104

GLP: yes

**Relative vapor density**

No data available

**Relative density**

0.875 g/mL at 25 °C (lit.)

**Density**

0.875 g/cm<sup>3</sup> (25 °C)

Method: lit.

**Water solubility**

0.0141 g/l (20 °C)

Method: Regulation (EC) No. 440/2008, Annex, A.6

GLP: yes

**Partition coefficient: n-octanol/water**

log Pow: 4.5 (24 °C)

Method: Regulation (EC) No. 440/2008, Annex, A.8

**Autoignition temperature**

230 °C

Decomposition temperature Viscosity: No data available

**Viscosity, dynamic**

13.8 mPa.s ( 20 °C)

Method: OECD Test Guideline 114

GLP: yes

**Viscosity, kinematic**

15.8 mm<sup>2</sup>/s ( 20 °C)

Method: OECD Test Guideline 114

GLP: yes

**Flow time**

No data available

**Explosive properties**

No data available

**Oxidizing properties**

none

**Molecular weight**

222.37 g/mol

**Particle characteristics Particle size**

No data available

**Solubility**

0.014g/l, Very slightly soluble in water, soluble in alcohol and oils.

**Physical state**

Liquid

---

**SECTION 10: Stability and reactivity**

## Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

## Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

## Contains the following stabiliser(s):

DL- $\alpha$ -Tocopherol ( $\geq 0.05$  -  $\leq 0.2$  %)

## Possibility of hazardous reactions

Violent reactions possible with: acids

## Conditions to avoid

Strong heating.

## Incompatible materials

Strong oxidizing agents

## Hazardous decomposition products

In the event of fire: see section 5

---

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Acute toxicity

LD50 Oral - Rat - male and female - > 2,610 mg/kg (OECD Test Guideline 401)

Inhalation: No data available

LD50 Dermal - Rabbit - > 5,000 mg/kg

Remarks: (ECHA)

### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Irritating to eyes. - 8 d (OECD Test Guideline 405)

### Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: Causes sensitisation.

(OECD Test Guideline 429)

### Germ cell mutagenicity

Test Type: Ames test

Test system: S. typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

#### **Carcinogenicity**

Classified based on available data. For more details, see section 2

#### **Reproductive toxicity**

Classified based on available data. For more details, see section 2

#### **Specific target organ toxicity - single exposure**

Classified based on available data. For more details, see section 2

#### **Specific target organ toxicity - repeated exposure**

Classified based on available data. For more details, see section 2

#### **Aspiration hazard**

Classified based on available data. For more details, see section 2

### **11.2 Additional Information**

RTECS: JR4977000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

---

## **SECTION 12: Ecological information**

### **Ecotoxicity**

#### **Components:**

#### **3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:**

##### **Toxicity to fish**

LC50 (Pimephales promelas (fathead minnow)): 1.43 mg/l End point: mortality Exposure time: 96 h Test Type: flow-through test NOEC

(Pimephales promelas (fathead minnow)): 0.64 mg/l End point: mortality Exposure time: 96 h Test Type: flow-through test

##### **Toxicity to daphnia and other aquatic invertebrates**

EC50 (Daphnia magna (Water flea)): 0.5103 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Method: Regulation (EC)

No. 440/2008, Annex, C.2

##### **Toxicity to algae/aquatic plants**

EC50 (Desmodesmus subspicatus (green algae)): 2 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP:

yes NOEC (Desmodesmus subspicatus (green algae)): 0.44 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201

GLP: yes

##### **M-Factor (Acute aquatic toxicity)**

1

##### **M-Factor (Chronic aquatic toxicity)**

1

##### **Toxicity to microorganisms**

EC50 (activated sludge): > 1,000 mg/l Exposure time: 0.5 h Test Type: static test Method: OECD Test Guideline 209

#### **DL- $\alpha$ -Tocopherol:**

##### **Toxicity to fish**

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes The value is given in analogy to the following substances: dl- $\alpha$ -Tocopherolacetate

#### **Toxicity to daphnia and other aquatic invertebrates**

EC50 (Daphnia magna (Water flea)): > 23.53 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes

#### **Toxicity to algae/aquatic plants**

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 25.8 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes

#### **Toxicity to fish (Chronic toxicity)**

(Oncorhynchus mykiss (rainbow trout)): > 100 mg/l End point: mortality Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 215 GLP: yes

#### **Toxicity to microorganisms**

EC20 (activated sludge): > 927 mg/l Exposure time: 30 min Test Type: static test Method: DIN EN ISO 8192 The value is given in analogy to the following substances: dl- $\alpha$ -Tocopherolacetate

### **Ecotoxicology Assessment**

#### **Chronic aquatic toxicity**

This product has no known ecotoxicological effects.

#### **Persistence and degradability**

#### **Components:**

##### **3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:**

#### **Biodegradability**

aerobic Inoculum: activated sludge Concentration: 100 mg/l Result: Readily biodegradable. Biodegradation: 70 - 80 % Exposure time: 28 d Method: OECD Test Guideline 301 GLP: yes

#### **DL- $\alpha$ -Tocopherol:**

#### **Biodegradability**

aerobic Inoculum: activated sludge Result: Not readily biodegradable. Biodegradation: 20 % Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes

#### **Bioaccumulative potential**

#### **Components:**

##### **3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:**

#### **Partition coefficient: noctanol/water**

log Pow: 4.5 (24 °C) pH: 7 Method: Regulation (EC) No. 440/2008, Annex, A.8 Remarks: Potential bioaccumulation

#### **DL- $\alpha$ -Tocopherol:**

#### **Partition coefficient: noctanol/water**

log Pow: > 6 Method: (calculated) Remarks: (External MSDS) Potential bioaccumulation

#### **Mobility in soil**

No data available

### Other adverse effects

### Components:

#### 3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:

##### Additional ecological information

Discharge into the environment must be avoided.

#### DL- $\alpha$ -Tocopherol:

##### Additional ecological information

Discharge into the environment must be avoided.

---

## SECTION 13: Disposal considerations

### Disposal methods

#### Waste from residues

Offer surplus and non-recyclable solutions to a licensed disposal company.

---

## SECTION 14: Transport information

### International Regulations

#### IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers)

Class : 9

Packing group : III

Labels : Class 9 - Miscellaneous dangerous substances and articles

Packing instruction (cargo aircraft) : 964

Packing instruction (passenger aircraft) : 964

#### IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers)

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

## **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

## **National Regulations**

### **JT/T 617**

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers)

Class : 9

Packing group : III

Labels : 9

Environmentally hazardous : no

## **Special precautions for user**

Remarks : EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous

Goods > 5L for liquids or > 5kg for solids.

Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

---

## **SECTION 15: Regulatory information**

Catalogue of Hazardous Chemicals : This product is not listed in the catalogue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of determination.

### **National regulatory information**

#### **Regulations on Safety Management of Hazardous Chemicals**

#### **Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)**

Not listed

#### **Hazardous Chemicals for Priority Management**

Not listed under SAWS

#### **China. List of Explosive Precursors**

Not applicable

#### **Regulations on Labour Protection in Workplaces where Toxic Substances are Used**

#### **Catalogue of Highly Toxic Chemicals**

Not listed

## **Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals**

### **China Severely Restricted Toxic Chemicals for Import and Export**

Not listed

---

## **SECTION 16: Other information**

### **Full text of other abbreviations**

AiC - Australian Inventory of Industrial Chemicals

ANTT - National Agency for Transport by Land of Brazil

ASTM - American Society for the Testing of Materials

bw - Body weight

CMR - Carcinogen, Mutagen or Reproductive Toxicant

DIN - Standard of the German Institute for Standardisation

DSL - Domestic Substances List (Canada)

EC<sub>x</sub> - Concentration associated with x% response

EL<sub>x</sub> - Loading rate associated with x% response

EmS - Emergency Schedule

ENCs - Existing and New Chemical Substances (Japan)

ErC<sub>x</sub> - Concentration associated with x% growth rate response

ERG - Emergency Response Guide

GHS - Globally Harmonised System

GLP - Good Laboratory Practice

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC<sub>50</sub> - Half maximal inhibitory concentration

ICAO - International Civil Aviation Organization

IECSC - Inventory of Existing Chemical Substances in China

IMDG - International Maritime Dangerous Goods

IMO - International Maritime Organisation

ISHL - Industrial Safety and Health Law (Japan)

ISO - International Organisation for Standardisation

KECI - Korea Existing Chemicals Inventory

LC<sub>50</sub> - Lethal Concentration to 50% of a test population

LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)

MARPOL - International Convention for the Prevention of Pollution from Ships

MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods

n.o.s. - Not Otherwise Specified

Nch - Chilean Norm

NO(A)EC - No Observed (Adverse) Effect Concentration  
NO(A)EL - No Observed (Adverse) Effect Level  
NOELR - No Observable Effect Loading Rate  
NOM - Official Mexican Norm  
NTP - National Toxicology Program  
NZIoC - New Zealand Inventory of Chemicals  
OECD - Organisation for Economic Co-operation and Development  
OPPTS - Office of Chemical Safety and Pollution Prevention  
PBT - Persistent, Bioaccumulative and Toxic substance  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
(Q)SAR - (Quantitative) Structure Activity Relationship  
REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals  
SADT - Self-Accelerating Decomposition Temperature  
SDS - Safety Data Sheet  
TCSI - Taiwan Chemical Substance Inventory  
TDG - Transportation of Dangerous Goods  
TECI - Thailand Existing Chemicals Inventory  
TSCA - Toxic Substances Control Act (United States)  
UN - United Nations  
UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods  
vPvB - Very Persistent and Very Bioaccumulative  
WHMIS - Workplace Hazardous Materials Information System

**Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.