

Safety Data Sheet

#37284948 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
+/-)-trans-Nerolidol, 95%	40716-66-3	(CH ₃) ₂ C=CHCH ₂ CH ₂ C(CH ₃)=CHCH ₂ CH ₂ C(CH ₃)(OH)CH=CH ₂	10	08 Sep 2026

SECTION 1

Identification

Product name	+/-)-trans-Nerolidol, 95%
CAS number	40716-66-3
Chemical formula	(CH ₃) ₂ C=CHCH ₂ CH ₂ C(CH ₃)=CHCH ₂ CH ₂ C(CH ₃)(OH)CH=CH ₂
Molecular weight	222.37
SMILES	OC(C=C)(C)CCC=C(C)CCC=C(C)C
EC / EINECS number	255-053-4
Recommended use & restrictions	For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human or veterinary purposes.
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification



WARNING

CODE	HAZARD STATEMENT
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
CODE	PRECAUTIONARY STATEMENT
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
Other hazards (e.g. PBT / vPvB, not classified)	Does not meet PBT or vPvB criteria under REACH Annex XIII.

SECTION 3

Composition / information on ingredients

Purity / concentration	~100%
Impurities / stabilising additives	Not applicable

SECTION 4

First-aid measures

Inhalation	Remove to fresh air; give oxygen/artificial respiration if breathing difficulties persist. Seek medical advice.
Skin contact	Remove contaminated clothing; wash immediately with plenty of water. Consult doctor if irritation persists.
Eye contact	Rinse immediately with water for several minutes; remove contact lenses if possible. Seek medical advice if irritation persists.
Ingestion	Rinse mouth with water; do not induce vomiting. Seek medical advice.
Symptoms / effects & medical attention	Treat symptomatically.

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Foam, dry powder, carbon dioxide, water spray, sand.
Unsuitable extinguishing media	No specific firefighting procedure given
Special hazards	Carbon oxides 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.
Advice for firefighters	Keep container closed; cool exposed containers with water spray. Use respiratory protection; prevent firefighting water from entering environment.

SECTION 6

Accidental release measures

Personal precautions & PPE	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. For personal protection see section 8.
Environmental precautions	Prevent entry into sewers/public waters; notify authorities if contamination occurs.
Containment & clean-up methods	Contain spill with bunding; soak up with inert solids (e.g., clay). Stop release if safe to do so.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Avoid vapor formation; provide local exhaust ventilation. Wash hands/skin before eating, drinking, or smoking. Do not eat/drink/smoke while handling.
Conditions for safe storage (incompatibilities)	Keep in original container, cool, well-ventilated, away from heat, direct sunlight, and ignition sources. Store under inert gas; air-sensitive.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL) *Not applicable*

DNEC/PNEC data *Not applicable*

Eye / face protection Safety glasses
Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.

Skin / hand protection Gloves: Nitrile Rubber, 0.4mm (480 mins).

Respiratory protection Full-face respirator
Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL) 0.876 g/mL
DERIVED FROM: LITERATURE

Flash point 113 °C
DERIVED FROM: LITERATURE

Acidity *Not applicable*

Appearance / physical state Liquid
DERIVED FROM: LITERATURE

Colour Light yellow to colourless
DERIVED FROM: LITERATURE

Odour Sweet
DERIVED FROM: LITERATURE

Melting / freezing point 145–146 °C
DERIVED FROM: LITERATURE

Boiling point *Not applicable*

Solubility (water) *Not applicable*

pH *Not applicable*

Vapour pressure *Not applicable*

Partition coefficient (log Pow) *Not applicable*

Auto-ignition / decomposition temp *Not applicable*

SECTION 10

Stability & reactivity

Chemical stability / 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.
Conditions to avoid	Heat, direct sunlight, ignition sources, air contact.
Incompatible materials	Strong oxidizing agents, ignition sources, direct sunlight, heat, air contact.
Hazardous decomposition products	Carbon oxides (CO, CO ₂). See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	LD50 Oral - Rat - male and female - > 2,610 mg/kg LD50 Dermal - Rabbit - > 5,000 mg/kg
Skin corrosion / irritation	Category 2 skin irritant (H315).
Eye corrosion / irritation	Category 2 serious eye irritant (H319).
Respiratory / skin sensitisation	<i>Not applicable</i>
Carcinogenicity	<i>Not applicable</i>
Mutagenicity	<i>Not applicable</i>
Reproductive toxicity	<i>Not applicable</i>
STOT (single / repeated exposure)	<i>Not applicable</i>
Aspiration hazard	<i>Not applicable</i>
Endocrine disruptors	This product does not contain any known or suspected Endocrine disruptors.

SECTION 12

Ecological information

Aquatic toxicity	Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) - 1.43 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 0.51 mg/l - 48 h Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 2 mg/l - 72 h static test NOEC - Desmodesmus subspicatus (green algae) - 0.44 mg/l - 72 h Toxicity to bacteria static test EC50 - activated sludge - > 1,000 mg/l - 0.5 h
Persistence & degradability	Biodegradability aerobic - Exposure time 28 d Result: 70 - 80 % - Readily biodegradable.
Bioaccumulative potential	<i>Not applicable</i>
Mobility in soil	<i>Not applicable</i>
PBT / vPvB assessment	<i>Not applicable</i>

SECTION 13

Disposal considerations**Waste treatment / disposal methods**

Dispose of in accordance with local/national regulations

SECTION 14

Transport information**UN number** UN3082**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.**Class** 9**Packing group** III**Transport category** 3**Tunnel code** -**Packing instruction (ADR)** P001**Packing instruction (IMDG)** P001**Environmental hazards** Yes.**Special precautions for user** *Not applicable*

SECTION 15

Regulatory information**REACH code** Y110**UFI code** *Not applicable***ECHA notification** *Not applicable***Chemical safety assessment carried out?** *Not applicable*

SECTION 16

Other information**Revision notes / other information**

This SDS replaces v1 issued: 18.10.2019

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