

Trade name: ADNOL™T**Current version :** 4.0.1, issued: 27.10.2022**Replaced version:** 4.0.0, issued: 03.05.2018**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****ADNOL™T**

Substance name 2,4,7,9-tetramethyldec-5-yne-4,7-diol
REACH registration no. 01-2119954390-39

Identification numbers

CAS no. 126-86-3
EC no. 204-809-1

1.2 Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses of the substance or mixture**

Wetting agent

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

LIQUICHEM Handelsgesellschaft mbH
Kajen 6 – 8
D-20459 Hamburg

Telephone no. 040 89 97 89 0
Fax no. 040 89 97 89 9
e-mail hamburg@liquichem.de

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412
Eye Dam. 1; H318
Skin Sens. 1B; H317

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Product identifier**

126-86-3 (2,4,7,9-tetramethyldec-5-yne-4,7-diol)

Hazard pictograms

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GHS05

GHS07

Signal word

Danger

Hazard statement(s)

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P272 Contaminated work clothing should not be allowed out of the workplace.
 P264 Wash hands thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.
 P501 Dispose of contents/container to hazardous or special waste collection point.

2.3 Other hazards

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances****Chemical characterization**

Substance name 2,4,7,9-tetramethyldec-5-yne-4,7-diol

Identification numbers

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 EC no. 204-809-1

Acute toxicity estimate (ATE) values

oral	dermal	inhalative
501 mg/kg bodyweight		

3.2 Mixtures

Not applicable. The product is not a mixture.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Seek medical advice immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration.

After skin contact

When in contact with the skin, clean with soap and water. Seek medical attention.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

Do not induce vomiting. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Dry chemical extinguisher; Alcohol-resistant foam; Carbon dioxide; Limestone powder

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

Combustion products of this material have to be classed invariably as respiratory poison. In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; Aldehydes; Hydrocarbons

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid dust formation.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Collect mechanically. Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes and skin. Provide eye wash fountain in work area. Have emergency shower available. Do not inhale dust.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Store product in closed containers. Always keep in containers of same material as the original.

Incompatible products

Do not store together with: oxidizing agents; Metals

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7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol			126-86-3 204-809-1	
	dermal	Long term (chronic)	systemic	0.5	mg/kg/day
	dermal	Short term (acut)	systemic	1.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.76	mg/m ³
	inhalative	Short term (acut)	systemic	5.28	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol			126-86-3 204-809-1	
	oral	Long term (chronic)	systemic	0.25	mg/kg/day
	oral	Short term (acut)	systemic	0.75	mg/kg/day
	dermal	Long term (chronic)	systemic	0.25	mg/kg/day
	dermal	Short term (acut)	systemic	0.75	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.43	mg/m ³
	inhalative	Short term (acut)	systemic	1.29	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol		126-86-3 204-809-1	
	water	fresh water	0.04	mg/L
	water	marine water	0.004	mg/L
	water	Aqua intermittent	0.4	mg/L
	water	fresh water sediment	0.32	mg/kg dry weight
	water	marine water sediment	0.032	mg/kg dry weight
	soil	-	0.028	mg/kg dry weight
	sewage treatment plant	-	7.00	mg/L

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

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Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
solid	
Form	
solid	
Colour	
white	
Odour	
menthol-like	
pH value	
No data available	
Boiling point / boiling range	
Value	262 °C
Melting point/freezing point	
Value	> 54 °C
Decomposition temperature	
No data available	
Flash point	
Value	> 100 °C
Ignition temperature	
No data available	
Flammability	
No data available	
Lower explosion limit	
No data available	
Upper explosion limit	
No data available	
Vapour pressure	
Value	0.01 mm Hg
Reference temperature	21 °C
Relative vapour density	
No data available	
Relative density	
No data available	
Density	
Value	0.89 g/cm ³

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Reference temperature	21 °C
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Solubility
No data available

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
log Pow		2.64	
Source		ECHA	

Kinematic viscosity
No data available

Particle characteristics
No data available

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat; Reactions with alkalis.

10.5 Incompatible materials

Oxidizing agents; reactive metals (i.e. sodium, calcium, zinc etc.)

10.6 Hazardous decomposition products

Aldehydes; flammable hydrocarbons

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
LD50	>	500	mg/kg bodyweight
Species	rat		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity
No data available

Skin corrosion/irritation
No data available

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Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
Duration of exposure		21	day(s)
Species		rabbit	
Method		EPA OTS 798.4500	
Source		ECHA	
Evaluation		strongly irritant	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
Route of exposure		Skin	
Duration of exposure		3	day(s)
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	

Germ cell mutagenicity			
No data available			

Reproduction toxicity			
No data available			

Carcinogenicity			
No data available			

STOT - single exposure			
No data available			

STOT - repeated exposure			
No data available			

Aspiration hazard			
No data available			

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

Exercise customary precautions when handling chemicals.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
LC50		42	mg/l
Duration of exposure		96	h
Species		Pimephales promelas	
Method		OECD 203	
Source		ECHA	

Toxicity to fish (chronic)			
No data available			

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
EC50		91	mg/l
Duration of exposure		48	h

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Species	Daphnia magna
Method	OECD 202
Source	ECHA

Toxicity to Daphnia (chronic)
No data available

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
EC50		15	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)
No data available

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
IC50		appr.	630
Duration of exposure			30
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
Type	aerobic biodegradation		
Method	OECD 302		
Source	ECHA		
Evaluation	not readily biodegradable		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
BCF		<	24
Species	Cyprinus carpio		
Source	ECHA		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	204-809-1
log Pow			2.64
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

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12.8 Other information**Other information**

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

REACH candidate list of substances of very high concern (SVHC) for authorisation

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This substance is not subject to Part 1 or 2 of Annex I

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

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SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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