

Fynske Olier Endetræsforsegler 6711

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state	liquid
Form	dispersion
Colour	off-white
Odour	slight
Odour Threshold	Not relevant
pH	8 - 9.5; ca. 20 °C; DIN 51369
Melting point/freezing point	0 - 4 °C
Boiling point/boiling range	ca. 100 °C
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	23 hPa
Relative vapour density	not determined
Density	ca.0.95 g/cm ³ ; 20 °C
Relative density	not determined
Solubility in other solvents	not determined
Water solubility	partly miscible
Partition coefficient: n-octanol/water	log Pow: > 3.5
Viscosity, dynamic	ca. 10 - 400 mPas; 20 °C; DIN 51398
Viscosity, kinematic	not determined
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Note Stable under recommended storage conditions.

10.2 Chemical stability

Note No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

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Hazardous reactions	None known.
10.4 Conditions to avoid	
Conditions to avoid	Protect from frost, heat and sunlight.
10.5 Incompatible materials to avoid	
Materials to avoid	Oxidizing agents;
10.6 Hazardous decomposition products	
Hazardous decomposition products	No decomposition if stored and applied as directed.
Thermal decomposition	To avoid thermal decomposition, do not overheat.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	Paraffin waxes and Hydrocarbon waxes: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 420 (literature value) Based on available data, the classification criteria are not met. 2,2',2''-nitrilotriethanol: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 (literature value) Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Paraffin waxes and Hydrocarbon waxes: No data available study scientifically unjustified Negligible or unlikely exposure pathways Data are available from alternate exposure routes. 2,2',2''-nitrilotriethanol: Study/Test not required Justification: Data are available from alternate exposure routes. The value is higher than maximum vapor concentrations obtainable under study conditions
Acute dermal toxicity	Paraffin waxes and Hydrocarbon waxes: LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 402 (literature value) Based on available data, the classification criteria are not met. 2,2',2''-nitrilotriethanol: LD50 Rabbit: > 2,000 mg/kg; OECD Test Guideline 402 Symptoms: Erythema (literature value) Based on available data, the classification criteria are not met.
Skin corrosion/irritation	
Skin irritation	Paraffin waxes and Hydrocarbon waxes: Rabbit: not irritating; OECD Test Guideline 404 (literature value) Paraffin waxes and Hydrocarbon waxes: Human: not irritating (literature value)

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Based on available data, the classification criteria are not met.

2,2',2''-nitrilotriethanol:
Rabbit: not irritating; OECD Test Guideline 404
(literature value)

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation**Eye irritation**

Paraffin waxes and Hydrocarbon waxes:
Rabbit: not irritating; OECD Test Guideline 405
(literature value)

Based on available data, the classification criteria are not met.

2,2',2''-nitrilotriethanol:
Rabbit: not irritating; OECD Test Guideline 405
(literature value)

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation**Sensitisation**

Paraffin waxes and Hydrocarbon waxes:
Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406
(literature value)

Paraffin waxes and Hydrocarbon waxes:
Human: not sensitizing
(literature value)

Based on available data, the classification criteria are not met.

2,2',2''-nitrilotriethanol:
Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406
(literature value)

Based on available data, the classification criteria are not met.

Germ cell mutagenicity**Genotoxicity in vitro**

Paraffin waxes and Hydrocarbon waxes:
In vitro tests did not show mutagenic effects
(literature value)

2,2',2''-nitrilotriethanol:
In vitro tests did not show mutagenic effects
(literature value)

Genotoxicity in vivo

Paraffin waxes and Hydrocarbon waxes:
Micronucleus test; Mouse: negative
(literature value)
The data are derived from the evaluations or test results achieved with similar
products (conclusion by analogy).
Test substance: solvent-extracted, dewaxed paraffin oils

2,2',2''-nitrilotriethanol:
The study is not necessary.
Justification:
In vitro tests did not show mutagenic effects

Remarks

Paraffin waxes and Hydrocarbon waxes:
Based on available data, the classification criteria are not met.

2,2',2''-nitrilotriethanol:
Based on available data, the classification criteria are not met.

Carcinogenicity**Carcinogenicity**

Paraffin waxes and Hydrocarbon waxes:
Animal testing did not show any carcinogenic effects.
(literature value)

2,2',2''-nitrilotriethanol:
Rat; dermal; 2 years; 5 days/week; OECD Test Guideline 451
In this study no cancerogenic effects were observed.

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	(literature value)
Remarks	<p>Paraffin waxes and Hydrocarbon waxes: Based on available data, the classification criteria are not met.</p> <p>2,2',2''-nitrilotriethanol: Based on available data, the classification criteria are not met.</p>
Reproductive toxicity	
Reproductive toxicity	<p>Paraffin waxes and Hydrocarbon waxes: Rat; Oral NOAEL ((parents)): 1,000 mg/kg (based on body weight and day) NOAEL (F1): 1,000 mg/kg (based on body weight and day); OECD Test Guideline 421 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Lubricant base oil</p> <p>2,2',2''-nitrilotriethanol: Animal testing did not show any effects on fertility. (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: 2-aminoethanol</p>
RemarksReproductive toxicity	<p>Paraffin waxes and Hydrocarbon waxes: Based on available data, the classification criteria are not met.</p> <p>2,2',2''-nitrilotriethanol: Based on available data, the classification criteria are not met.</p>
Teratogenicity	<p>Paraffin waxes and Hydrocarbon waxes: Rat; Dermal Did not show teratogenic effects in animal experiments. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Solvent refined base oil</p> <p>2,2',2''-nitrilotriethanol: Animal testing did not show any effects on foetal development. (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: 2-aminoethanol</p>
Remarks-Teratogenicity	<p>Paraffin waxes and Hydrocarbon waxes: Based on available data, the classification criteria are not met.</p> <p>2,2',2''-nitrilotriethanol: Based on available data, the classification criteria are not met.</p>
STOT - single exposure	
Remarks	<p>Paraffin waxes and Hydrocarbon waxes: The substance or mixture is not classified as specific target organ toxicant, single exposure.</p> <p>2,2',2''-nitrilotriethanol: The substance or mixture is not classified as specific target organ toxicant, single exposure.</p>
STOT - repeated exposure	
Remarks	<p>Paraffin waxes and Hydrocarbon waxes: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.</p> <p>2,2',2''-nitrilotriethanol: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.</p>

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**Repeated dose toxicity**

Paraffin waxes and Hydrocarbon waxes:
Rat; Oral; Subchronic toxicity
NOAEL: 1,500 mg/kg (based on body weight and day); OECD Test Guideline 408 (literature value)

Paraffin waxes and Hydrocarbon waxes:
Rat; Dermal; Subchronic toxicity
NOAEL: 2,000 mg/kg (based on body weight and day); OECD Test Guideline 411 (literature value)

The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: Mineral oil

2,2',2''-nitrioltriethanol:
Rat; oral feed; Subchronic toxicity
NOAEL: 1,000 mg/kg (based on body weight and day); OECD Test Guideline 408 (literature value)

2,2',2''-nitrioltriethanol:
Rat; Inhalation; Subacute toxicity; NOAEC: 0.5 mg/l
Test atmosphere: dust/mist; OECD Test Guideline 412 (literature value)

2,2',2''-nitrioltriethanol:
Rat; Dermal; Subchronic toxicity
NOAEL: 250 mg/kg (based on body weight and day); OECD Test Guideline 411
Target Organs: Kidney
(literature value)

Aspiration hazard**Aspiration toxicity**

Paraffin waxes and Hydrocarbon waxes:
No aspiration toxicity classification

2,2',2''-nitrioltriethanol:
Not applicable

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity****Toxicity to fish**

Paraffin waxes and Hydrocarbon waxes:
LL50 (96 h) Pimephales promelas (fathead minnow): > 100 mg/l ; static test;
OECD Test Guideline 203
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: Lubricant base oil

2,2',2''-nitrioltriethanol:
LC50 (96 h) Pimephales promelas (fathead minnow): > 100 mg/l ; flow-through test
(literature value)

Toxicity to fish - Chronic toxicity

Paraffin waxes and Hydrocarbon waxes:
No data available

2,2',2''-nitrioltriethanol:
study scientifically unjustified

Toxicity to daphnia and other aquatic invertebrates

Paraffin waxes and Hydrocarbon waxes:
EL50 (48 h) Daphnia magna (Water flea): > 100 mg/l ; static test; OECD Test Guideline 202
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

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	<p>Test substance: Lubricant base oil</p> <p>2,2',2"-nitrilotriethanol: EC50 (48 h) Ceriodaphnia sp.: > 100 mg/l ; static test (literature value)</p>
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	<p>Paraffin waxes and Hydrocarbon waxes: NOEL (21 d) Daphnia (water flea): 10 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Lubricant base oil</p> <p>2,2',2"-nitrilotriethanol: NOEC (21 d) Daphnia magna (Water flea): 16 mg/l; mortality; semi-static test (literature value)</p>
Toxicity to aquatic plants	<p>Paraffin waxes and Hydrocarbon waxes: NOEL (72 h) Pseudokirchneriella subcapitata (green algae): > 100 mg/l ; static test; OECD Test Guideline 201; (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Lubricant base oil</p> <p>2,2',2"-nitrilotriethanol: EC50 (72 h) Desmodesmus subspicatus (green algae): > 100 mg/l ; static test; (literature value)</p>
Toxicity to bacteria	<p>Paraffin waxes and Hydrocarbon waxes: (4 d) Photobacterium phosphoreum: > 1.03 mg/l; static test (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Lubricant base oil</p> <p>2,2',2"-nitrilotriethanol: EC50 (180 min) activated sludge of a predominantly domestic sewage: > 1,000 mg/l; Respiration inhibition; OECD Test Guideline 209 (literature value)</p>
Toxicity to soil dwelling organisms	<p>Paraffin waxes and Hydrocarbon waxes: No data available Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.</p> <p>2,2',2"-nitrilotriethanol: The study is not necessary. Justification: Readily biodegradable. Direct exposure to soil is unlikely.</p>
Toxicity to terrestrial flora	<p>Paraffin waxes and Hydrocarbon waxes: No data available Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.</p> <p>2,2',2"-nitrilotriethanol: The study is not necessary. Justification: Readily biodegradable. Direct exposure to soil is unlikely.</p>
Toxicity for other terrestrial non-mammalian fauna	<p>Paraffin waxes and Hydrocarbon waxes: Studies on birds do not need to be conducted due to large mammalian dataset.</p> <p>2,2',2"-nitrilotriethanol: The study is not necessary. Justification: Studies on birds do not need to be conducted due to large mammalian dataset. Direct exposure to soil is unlikely. Readily biodegradable.</p>

12.2 Persistence and degradability

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Biodegradability	<p>Paraffin waxes and Hydrocarbon waxes: inherently biodegradable; 28 d; aerobic; OECD Test Guideline 301F (literature value)</p> <p>2,2',2''-nitrilotriethanol: Readily biodegradable.; > 60 %; 5 d; aerobic; CO2 Evolution Test (literature value)</p>
12.3 Bioaccumulative potential	
Bioaccumulation	<p>Paraffin waxes and Hydrocarbon waxes: may be bioaccumulative (B), but not very bioaccumulative (vB)</p> <p>2,2',2''-nitrilotriethanol: Cyprinus carpio (Carp); 42 d; 0.25 mg/l; Bioconcentration factor (BCF): 3.9; OECD Test Guideline 305C (literature value) Bioaccumulation is unlikely.</p>
12.4 Mobility in soil	
Mobility	<p>Paraffin waxes and Hydrocarbon waxes: No data available Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.</p> <p>2,2',2''-nitrilotriethanol: Adsorption/Soil; Medium: Soil; Koc: 10; log Koc: 1; calculated (literature value) Highly mobile in soils</p>
12.5 Results of PBT and vPvB assessment	
Results of PBT assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Results of PBT assessment	<p>Paraffin waxes and Hydrocarbon waxes: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).</p> <p>2,2',2''-nitrilotriethanol: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).</p>
12.6 Other adverse effects	
General advice	<p>Paraffin waxes and Hydrocarbon waxes: None known.</p> <p>2,2',2''-nitrilotriethanol: None known.</p>
Endocrine disrupting potential	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	According to the European Waste Catalogue, Waste Codes are not product
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	specific, but application specific., If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	Empty remaining contents., Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 Proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.3 Transport hazard class

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Remarks No information available.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**NATIONAL/OTHER REGULATIONS****Legislation on the control of major-accident hazards involving dangerous substances**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable

NOTIFICATION STATUS

Australian Inventory of Industrial Chemicals	ZAU_AIIC	not listed (product or constituents are not listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	listed (product or constituents are listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	listed (product or constituents are listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	not listed (product or constituents are not listed)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	listed (product or constituents are listed)
United States TSCA Inventory	TSCA	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: OTHER INFORMATION

Further information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse