

Last revised date: 28.10.2022 Supersedes Date: 22.10.2022

TN3005

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation(EU) No. 2020/878

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

1.1 Product identifier

Product name: TN3005

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

Identified uses: Not available.
Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distr :

ibutor Information

Reinhardoil.dk ApS Helleruplund alle 8 2900 Hellerup

Denmark

Contact person : mail@reinhardoil.dk

Telephone : General information

+45 70 26 70 07

1.4

Emergency telephone

number

: Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44

(0) 1235239671

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

The product is not classified for chronic aquatic toxicity, for further details see section 16

2.2 Label Elements Not applicable

Supplemental label information

EUH210: Safety data sheet available on request.

Additional Information: No data available.

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2.3 Other hazards

Endocrine disrupting properties-Toxicity

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.

Endocrine disrupting properties-Ecotoxicity

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 3: Composition/information on ingredients

Chemical nature: Mixture of polydimethylsiloxanes, fillers and cross-linkers.

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Titanium, Bis(ethyl acetoacetate)- diisopropoxy	1 - <5%	27858-32-8	248-697-2	No data available.	Not applicable	
Octamethylcyc lotetrasiloxane	0,01 - <0,1%	556-67-2	209-136-7	01- 2119529238- 36-XXXX	Aquatic Toxicity (Chronic): 10	PBT, vPvB

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Classification

Chemical name	Classification			
Titanium, Bis(ethyl	Flam. Liq.: 3: H226; Eye Dam.: 2: H319; STOT SE: 3: H336;			
acetoacetate)-				
diisopropoxy				
Octamethylcyclotetrasiloxa	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1:	No data		
ne	H410;	available.		

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move into fresh air and keep at rest.

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[#] This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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Eye contact: Rinse the eye with water immediately. If eye irritation persists: Get medical

advice/attention.

Skin Contact: After contact with skin, remove product mechanically. Wash area with soap

and water. Get medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Consult a physician for specific

advice.

4.2 Most important symptoms and effects, both acute and

No data available.

delayed:

4.3 Indication of any immediate medical attention and special treatment needed

No data available. Hazards:

Treatment: No data available.

SECTION 5: Firefighting measures

General Fire Hazards: Use standard firefighting procedures and consider the hazards of other

involved materials. Prevent runoff from fire control or dilution from entering

streams, sewers, or drinking water supply.

5.1 Extinguishing media

Suitable extinguishing

media:

All standard extinguishing agents are suitable.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or

mixture:

In case of fire, carbon monoxide and carbon dioxide may be formed.

5.3 Advice for firefighters

Special fire-fighting

procedures:

Move container from fire area if it can be done without risk. Cool fire-

endangered containers with water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Provide adequate ventilation. Use personal protective equipment.

6.2 Environmental Precautions: Do not allow runoff to sewer, waterway or ground.

6.3 Methods and material for containment and cleaning

up:

Use mechanical handling equipment. Shovel up and place in a container for

salvage or disposal.

6.4 Reference to other

sections:

No data available.

SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Methanol is formed during processing. Wear appropriate personal

protective equipment.

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Storage conditions: Keep away from heat, sparks and open flame. Keep container tightly closed

in a cool, well-ventilated place.

7.2 Conditions for safe storage,

including any incompatibilities:

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

Storage Stability: Material is stable under normal conditions.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

None.

8.2 Exposure controls

Appropriate Engineering

Controls:

No data available.

Individual protection measures, such as personal protective equipment

General information: Wear suitable gloves and eye/face protection.

Eye/face protection: Safety glasses with side-shields conforming to EN166 Safety glasses with

side shields

Skin protection

Hand Protection: Advice: There is no risk to health due to contact with the chemical. Use

hand protection to prevent mechanically injuries.

Other: Chemical resistant clothing Wear rubber boots.

Respiratory Protection: In case of inadequate ventilation use suitable respirator.

Hygiene measures: Provide adequate ventilation. Observe good industrial hygiene practices.

Avoid contact with eyes, skin, and clothing. Wash hands after handling.

When using do not eat, drink or smoke.

Environmental exposure

controls:

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: solid
Form: solid
Color: Black
Odor: Faint

Odor Threshold:

pH:

Not applicable

Melting Point:

No data available.

No data available.

No data available.

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Flash Point: 118 °C

No data available. **Evaporation Rate:** Flammability (solid, gas): No data available. Flammability Limit - Upper (%): No data available. Flammability Limit - Lower (%): No data available. Not applicable Vapor pressure: Relative vapor density: No data available. Density: 1,03 g/cm3 (23 °C) Relative density: No data available.

Solubility(ies)

Solubility in Water: Insoluble
Solubility (other): Insoluble

Partition coefficient (n-octanol/water) Log

Pow:

No data available.

Autoignition Temperature: No data available.

Decomposition Temperature: No decomposition if stored and applied as directed.

SADT:

Viscosity, dynamic:

Viscosity, kinematic:

Viscosity, kinematic:

Viscosity, kinematic:

Viscosity, kinematic:

No data available.

No data available.

No data available.

9.2 Other information

VOC Content: 30 g/l

SECTION 10: Stability and reactivity

10.1 Reactivity: Reacts with water liberating small amounts of methanol.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

10.4 Conditions to avoid: Keep away from moisture. Keep away from heat, sparks and open flame.

10.5 Incompatible Materials: Strong Acids, Strong Bases

10.6 Hazardous Decomposition

Products:

Carbon oxides Oxides of silicon. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of

formaldehyde are formed due to oxidative degradation.

SECTION 11: Toxicological information

General information: Our Experience shows that our Silicone Elastomer products can be handled

without risk to health if used properly and if the usual precautions for

industrial hygiene are observed.

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

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Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasilox LD 50 (Rat): > 4.800 mg/kg

ane

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasil LD 50 (Rat): > 2.375 mg/kg

oxane

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasilox LC50 (Rat, 4 h): 36 mg/l

ane

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasilox No data available.

ane

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasil OECD Test Guideline 404 (Rabbit): Non irritating

oxane

Serious Eye Damage/Eye

Irritation:

Product: No data available.

Specified substance(s)

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Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasil oxane

OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non

irritating

Respiratory or Skin Sensitization:

> Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasil

Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea

oxane Pig): Not sensitizing

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasilox

Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)

Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

In vivo

No data available. **Product:**

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasilox

Chromosomal aberration (OECD 475) Inhalation (Rat, male and female):

ane negative

Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative

Carcinogenicity

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasilox

No data available.

ane

Reproductive toxicity

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)-

No data available.

diisopropoxy Octamethylcyclotetrasilox

No data available.

ane

Specific Target Organ Toxicity - Single Exposure

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Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasilox No data available.

ane

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasilox No data available.

ane

Aspiration Hazard

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasilox No data available.

ane

11.2 Information on other hazards

Endocrine disrupting properties

Product: 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.;

Components:

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasilo No data available.

xane

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasilox No toxicity at the limit of solubility; LC50 (Oncorhynchus mykiss, 96 h): >

ne 0,022 mg/l

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Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)-

No data available.

diisopropoxy

Octamethylcyclotetrasilox

No toxicity at the limit of solubility; EC50 (Daphnia magna, 48 h): > 0,015

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)-

No data available.

diisopropoxy

Octamethylcyclotetrasilox

No toxicity at the limit of solubility; NOEC (Oncorhynchus mykiss, 93 d): >=

0,0044 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl

No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasilox

ane

ane

No toxicity at the limit of solubility; NOEC (Daphnia magna, 21 d): > 0,015

mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)-

No data available.

diisopropoxy

Octamethylcyclotetrasilox

No toxicity at the limit of solubility; ErC50 (Selenastrum capricornutum, 96

h): > 0.022 mg/lane

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)-

No data available.

diisopropoxy

Octamethylcyclotetrasilox

(29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace

Test)): 3,7 % Persistent Not readily biodegradable.

BOD/COD Ratio

ane

Product No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

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Octamethylcyclotetrasilox

No data available.

12.3 Bioaccumulative potential

Product:

No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasilox

Bioconcentration Factor (BCF): 12.400

ane

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Titanium, Bis(ethyl

No data available.

acetoacetate)-diisopropoxy

Octamethylcyclotetrasiloxa

No data available.

12.5 Results of PBT and vPvB assessment:

No data available.

Titanium, Bis(ethyl acetoacetate)-

diisopropoxy

Octamethylcyclotetrasiloxane

No data available. Persistent,

Bioaccumulative and Toxic (PBT), very Persistent

and very Bioaccumulative

(vPvB)

Octamethylcyclotetrasiloxane (D4) meets the current EU REACh Annex XIII criteria for PBT and vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., However our understanding of the available science is that D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by naturally occurring reactions in the atmosphere. Any D4 in air that does not degrade by these reactions is not expected to deposit from the air to water,

to land, or to living organisms.

12.6 Endocrine disrupting properties:

Product: 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.

Components:

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasilo

xane

No data available.

12.7 Other adverse effects:

Other hazards

Product: No data available.

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Additional Information: Ecotoxicological data for this product is not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: The generation of waste should be avoided or minimized wherever

possible. Do not discharge into drains, water courses or onto the ground.

See Section 8 for information on appropriate personal protective

equipment.

Disposal methods: Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information

ADR

Not regulated.

ADN

Not regulated.

RID

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

14.6 Special precautions for user: This product is not regarded as dangerous goods according to the

national and international regulations on the transport of dangerous goods. Protect from moisture. Keep away from food, foodstuff, acids and bases. keep away from odour sensitive

materials

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: none

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EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, **Annex I:** None present or none present in regulated quantities.

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: none

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia AICS: n (negative listing) Remarks: None. Canada DSL Inventory List: q (quantity restricted) Remarks: At least one

component is not listed in DSL

but all such components are

Remarks: None.

listed in NDSL. EU EINECS List: Remarks: None. y (positive listing) Japan (ENCS) List: y (positive listing) Remarks: None. China Inv. Existing Chemical Remarks: None. y (positive listing)

Substances:

Korea Existing Chemicals Inv. y (positive listing)

(KECI):

Canada NDSL Inventory: Remarks: None. n (negative listing) Remarks: None. Philippines PICCS: y (positive listing)

US TSCA Inventory: y (positive listing) Remarks: On TSCA Inventory

New Zealand Inventory of Remarks: None. y (positive listing)

Chemicals:

Taiwan Chemical Substance y (positive listing) Remarks: None.

Inventory:

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and

The partition coefficient of D4 between PDMS and water has been sources for data:

determined as log KPDMS-water =7.09. It follows that PDMS containing up to 3%w/w D4 will generate a thermodynamic limit concentration of 2.4 µg D4/L in the water phase. The critical 21d-NOEC for daphnia of 7.9 μ g D4/L will not be reached. The product is therefore not classified for chronic aquatic toxicity

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Wording of the H-statements in section 2 and 3

H226 Flammable liquid and vapor.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Training information: No data available.

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Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended

for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

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 warrantyor 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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