

Last revised date: 28.10.2022 Supersedes Date: 07.02.2022

TN3005-C

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-C

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

Identified uses: Silicone Elastomer

Uses advised against: For industrial use only.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distr

ibutor Information

Momentive Performance Materials GmbH

Chempark Leverkusen Gebaeude V7

DE - 51368 Leverkusen

Germany

Contact person : commercial.services@momentive.com

Telephone : General information

+390510924300 (Customer Service Centre)

1.4

number

Emergency telephone

(0) 1235239671

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

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

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

Classification

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

occur.

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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.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Rinse mouth.

Consult a physician for specific advice.

4.2 Most important symptoms and effects, both acute and

delayed:

Product may hydrolyse upon contact with body fluids in the gastrointestinal

tract to produce additional methanol; therefore, consider the

signs/symptoms of methanol poisoning and also observe the known latency

period of several days!

4.3 Indication of any immediate medical attention and special treatment needed

Hazards:

No data available.

Treatment: If swallowed, do NOT induce vomiting. Give a glass of water. If swallowed,

rinse mouth with water (only if the person is conscious). Product may hydrolyze upon contact with body fluids in the gastrointestinal tract to produce additional methanol. The potential for toxic effects due to methanol formation (eye damage and blindness, metabolic acidosis, dizziness and drowsiness, fetal toxicity, and liver, kidney, and heart muscle

damage) should be recognized.

SECTION 5: Firefighting measures

General Fire Hazards: 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:

Do not use water jet as an extinguisher, as this will spread the 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:

Product may charge electrostatically during pouring or filling. Take

precautionary measures against static discharges. Keep away from sources

of ignition - No smoking.

Special protective

equipment for fire-fighters:

Use standard firefighting procedures and consider the hazards of other

involved materials. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Provide adequate ventilation. Use personal protective equipment. Keep container tightly closed and in a well-ventilated place. Caution:

Contaminated surfaces may be slippery.

6.2 Environmental Precautions: Prevent runoff from entering drains, sewers, or streams.

6.3 Methods and material for containment and cleaning

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

up:

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6.4 Reference to other

sections:

Remove sources of ignition.

SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Methanol is formed during processing. Wear appropriate personal

protective equipment.

Storage conditions: Keep away from sources of ignition - No smoking. Store in original

container.

7.2 Conditions for safe storage,

including any incompatibilities:

Store in original tightly closed container. Keep in a cool, ventilated location far from heat source and flame Keep away from food, drink and animal

feeding stuffs.

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:

Eye wash facilities and emergency shower must be available when handling this product. Observe good industrial hygiene practices.

Individual protection measures, such as personal protective equipment

General information: Use only in well-ventilated areas. Wear suitable gloves and eye/face

protection.

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

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: Wear suitable protective clothing and eye/face protection. Wear suitable

protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Respiratory protection mask with Filtertype ABEK

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

When using do not eat or drink.

Environmental exposure

controls:

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Appearance

Physical state: solid
Form: Paste
Color: Colorless
Odor: Faint

Odor Threshold:No data available.pH:Not applicableMelting Point:No data available.Boiling Point:No data available.

Flash Point: 118 °C

Evaporation Rate: No data available. Flammability (solid, gas): No data available. Flammability Limit - Upper (%): No data available. Flammability Limit - Lower (%): No data available. Vapor pressure: No data available. 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):

Partition coefficient (n-octanol/water) Log

No data available.

No data available.

Pow:

Autoignition Temperature: No data available.

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

SADT:

Viscosity, dynamic:

Viscosity, kinematic:

Viscosity, kinematic:

Sample:

No data available.

Sample:

No data available.

No data available.

No data available.

9.2 Other informationNo data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Material is stable under normal conditions.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Hazardous polymerization does not occur. Avoid contact with: Moisture.

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

10.5 Incompatible Materials: Moisture. Strong Acids, Strong Bases

10.6 Hazardous Decomposition

Products:

Carbon oxides Oxides of silicon. Generates methanol during cure.

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

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General information: In serious cases absorption of methanol in the body may lead to damage to

the eyesight.

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

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 acetoacetate)-

No data available.

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 acetoacetate)-

No data available.

diisopropoxy

Octamethylcyclotetrasil

oxane

LD 50 (Rat): > 2.375 mg/kg

Inhalation

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

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)-

No data available.

diisopropoxy

Octamethylcyclotetrasilox

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

ane

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)-diisopropoxy

No data available.

Octamethylcyclotetrasilox

No data available.

ane

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy No data available.

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Octamethylcyclotetrasil

oxane

OECD Test Guideline 404 (Rabbit): Non irritating

Serious Eye Damage/Eye

Irritation:

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl

No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasil

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

irritating

Respiratory or Skin

Sensitization:

oxane

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasil

oxane

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

Pig): Not sensitizing

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasilox

ane

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

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasilox

ane

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

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.

Reproductive toxicity

Product: No data available.

Specified substance(s)

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Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasilox No data available.

Specific Target Organ Toxicity - Single Exposure Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

Octamethylcyclotetrasilox No data available.

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

No data available. Octamethylcyclotetrasilox

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.

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Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

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

0,022 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available. acetoacetate)-

diisopropoxy

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

Chronic Toxicity

Fish

ane

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available. acetoacetate)-

diisopropoxy

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

0,0044 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

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

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

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

h): > 0.022 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Titanium, Bis(ethyl No data available.

acetoacetate)diisopropoxy

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

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

BOD/COD Ratio

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Product No data available.

Specified substance(s)

Titanium, Bis(ethyl acetoacetate)diisopropoxy

No data available.

Octamethylcyclotetrasilox No data available.

ane

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

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.

ne

12.5 Results of PBT and vPvB

assessment:

Titanium, Bis(ethyl acetoacetate)-

diisopropoxy

Octamethylcyclotetrasiloxane

No data available.

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)-

No data available.

diisopropoxy

Octamethylcyclotetrasilo

xane

No data available.

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12.7 Other adverse effects:

Other hazards

Product: No data available.

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

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Substances: none

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

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 safetyNo Chemical Safety Assessment has been carried out. **assessment:**

Inventory Status

Canada DSL Inventory List: q (quantity restricted) Remarks: None. Australia AICS: Not in compliance with the Remarks: None.

inventory.

EINECS, ELINCS or NLP: On or in compliance with the Remarks: None.

inventory

Japan (ENCS) List: On or in compliance with the Remarks: None.

inventory

inventory.

China Inv. Existing Chemical On or in compliance with the Remarks: None.

Substances: inventory

Korea Existing Chemicals Inv. On or in compliance with the Remarks: None.

(KECI): inventory

Canada NDSL Inventory: Not in compliance with the Remarks: None.

Philippines PICCS: On or in compliance with the

inventory

US TSCA Inventory: On or in compliance with the Remarks: None.

inventory

New Zealand Inventory of On or in compliance with the Remarks: None.

Chemicals: inventory

Taiwan Chemical Substance On or in compliance with the Remarks: None.

Inventory: inventory

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Remarks: None.



Remarks: None.

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REACH: If purchased from Momentive Performance Materials GmbH

Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other

reactants.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and

sources for data:

The partition coefficient of D4 between PDMS and water has been 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 µg D4/L will not be reached. The product is therefore not classified for chronic aquatic toxicity

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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