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: RTV160

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Silicone Elastomer
Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distributor 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 **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.

2.3 Other hazards

PBT/vPvB data
vPvB: very persistent and very bioaccumulative substance.

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
Tris(3(trimethoxysilyl)propyl)isocyanurate	1 - <5%	26115-70-8	247-465-8	01-2120807606-55-XXXX	Not applicable	
Decamethylcyclopentasiloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367-43-XXXX	Not applicable	vPvB

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
# This substance has workplace exposure limit(s).
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
Tris(3(trimethoxysilyl)propyl)isocyanurate	Acute Tox.: 4: H302;	
Decamethylcyclopentasiloxane	No data available.	

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move to fresh air. Get medical attention if symptoms occur.

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:	No data available.

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. 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:	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:	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. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Reacts with water liberating small amounts of methanol. This material is reactive with water, but the reaction will not significantly increase the fire severity.
5.3 Advice for firefighters	
Special fire-fighting procedures:	Move container from fire area if it can be done without risk.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus and protective clothing.

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: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). See Section 8 of the SDS for Personal Protective Equipment.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Methanol is formed during processing. Avoid contact with eyes, skin, and clothing. Do not eat, drink or smoke when using the product. Wash thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment.

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: Store in a cool and well-ventilated place. Keep away from moisture. Keep away from food, drink and animal feeding stuffs. Use original container or packaging of similar material of construction

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

Chemical name	Type	Exposure Limit Values	Source
TITANIUM DIOXIDE - Inhalable	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
TITANIUM DIOXIDE - Respirable.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

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

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.

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

Hygiene measures: Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes, skin, and clothing. Observe good industrial hygiene practices. When using do not eat, drink or smoke. Wash hands after handling.

Environmental exposure controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	Paste
Color:	White
Odor:	Alcohol
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	> 93 °C
Flash Point:	ca. 75 °C (Closed Cup)
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:	1,04 g/cm3
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble
Solubility (other):	Soluble in toluene
Partition coefficient (n-octanol/water) Log Pow:	Not determined.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No decomposition if stored and applied as directed.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	> 20,5 mm2/s (40 °C)
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information

VOC Content:	40 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. Avoid exposure to: Water
10.4 Conditions to avoid:	Reacts with water liberating small amounts of methanol.
10.5 Incompatible Materials:	Water. 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.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 157.300,28 mg/kg

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate: LD 50 (Rat): 1.713 mg/kg

Decamethylcyclopentasiloxane: No data available.

Dermal

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

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate: LD 50 (Rabbit): > 19.200 mg/kg

Decamethylcyclopentasiloxane: LD 50 (Rabbit): > 2.000 mg/kg

Inhalation

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

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate: No data available.

Decamethylcyclopentasiloxane: LC50 (Rat, 4 h): 8,67 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate: No data available.

Decamethylcyclopentasiloxane:
NOAEL (Rat(male and female), Oral, 90 d): 1.000 mg/kg
NOAEL (Rat(male and female), Dermal, 28 d): 1.600 mg/kg
NOAEC (Rat(male and female), Inhalation - vapor, 2 y): 160 ppm

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)	
Tris(3(trimethoxysilyl)propyl)isocyanurate	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) Non irritating
Decamethylcyclopentasiloxane	OECD Test Guideline 404 (Rabbit, 72 h): Non irritating

Serious Eye Damage/Eye Irritation:

Product:	No data available.
Specified substance(s)	
Tris(3(trimethoxysilyl)propyl)isocyanurate	OECD-Guideline 405 (Acute Eye Irritation/Corrosion) Not irritating No eye irritation
Decamethylcyclopentasiloxane	OECD Test Guideline 405 (Rabbit, 72 h): Non irritating

Respiratory or Skin Sensitization:

Product:	No data available.
Specified substance(s)	
Tris(3(trimethoxysilyl)propyl)isocyanurate	, OECD-Guideline 406 (Skin Sensitisation)Not a skin sensitizer.
Decamethylcyclopentasiloxane	LLNA (Local Lymph Node Assay), OECD Guideline 429 (LLNA) (Mouse): Non sensitizing.

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Specified substance(s)	
Tris(3(trimethoxysilyl)propyl)isocyanurate	(OECD 471, 490, 487)negative
Decamethylcyclopentasiloxane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mammalian cytogenicity test (Mouse Lymphoma Assay (OECD Guidline 476)): negative (not mutagenic) Chromosomal aberration (OECD 473): negative (not mutagenic)

In vivo

Product:	No data available.
Specified substance(s)	
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	(OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female)negative (not mutagenic) Vapor.

Carcinogenicity

Product:	No data available.
Specified substance(s)	
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	No data available.

Reproductive toxicity

Product:	No data available.
Specified substance(s)	

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	No data available.

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:

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	No data available.

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	LC50 (Oncorhynchus mykiss, 96 h): > 0,0016 mg/l (OECD-Guideline 204)

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	EC50 (Daphnia magna, 48 h): > 0,0029 mg/l (OECD Test Guideline 202)

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	NOEC (Oncorhynchus mykiss, 90 d): >= 0,0014 mg/l (OECD-Guideline 210) LOEC (Oncorhynchus mykiss, 90 d): > 0,0014 mg/l (OECD-Guideline 210)

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	NOEC (Daphnia magna, 21 d): >= 0,0015 mg/l (OECD-Guideline 211) LOEC (Daphnia magna, 21 d): > 0,0015 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0,0012 mg/l (OECD Test Guideline 201) NOEC : >= 0,0012 mg/l EC10 : > 0,0012 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	(28 d): 34 % The product is not readily biodegradable.
Decamethylcyclopentasiloxane	activated sludge (adaptation not specified) (28 d, OECD Test Guideline 310): 0,14 % The product is not readily biodegradable.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	No data available.

12.3 Bioaccumulative potential

Product:	No data available.
Specified substance(s)	
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	Fathead Minnow, Bioconcentration Factor (BCF): 7.060 (OECD Test Guideline 305)

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	No data available.

12.5 Results of PBT and vPvB assessment:	vPvB: very persistent and very bioaccumulative substance.	
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.	
Decamethylcyclopentasiloxane	vPvB: very persistent and very bioaccumulative substance.	Decamethylcyclopentasiloxane (D5) meets the current EU REACH Annex XIII criteria for 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 D5 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 D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by naturally occurring reactions in the atmosphere. Any D5 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:	
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Decamethylcyclopentasiloxane	No data available.

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. Keep away from food, drink and animal feeding stuffs. 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

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):

Chemical name	CAS-No.	Concentration
Decamethylcyclopentasiloxane	541-02-6	0 - <=0,1112%

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
TITANIUM DIOXIDE	13463-67-7	1,0 - 10%
Decamethylcyclopentasiloxane	541-02-6	0,1 - 1,0%

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 Industrial Chem. Act (AIIC):	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.

REACH:	If purchased from Momentive 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.	Remarks: None.

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

H302 Harmful if swallowed.

Training information: No data available.

Issue Date: 28.10.2022

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 asa 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.