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RTV41

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: RTV41

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

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 been classified according to the legislation in force.

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

Environmental Hazards

Chronic hazards to the aquatic environment

Category 2

H411: Toxic to aquatic life with long lasting

effects.

2.2 Label Elements



Hazard Statement(s): H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

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Prevention: P273: Avoid release to the environment.

Response: P391: Collect spillage.

Disposal: P501: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

Unknown toxicity - Environment

Acute hazards to the aquatic 0 %

environment

Chronic hazards to the aquatic 0 %

environment

Additional Information: This product is a mixture containing polymer compounds and hazardous

substances as listed in section 3. The relevant hazardous classification according to CLP Directive 1272/2008 is stated in section 2 of this SDS. Although the preparation is classified as a hazardous preparation it does not present a danger to human health by inhalation, ingestion or contact with the skin or to aquatic environment in the form in which it is placed on the market. According to Annex I No. 1.3.4.1 of the Directive 1272/2008

such preparations do not require a label.

2.3 Other hazards

PBT/vPvB data

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)

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: Polydimethylsiloxane with filler and coloured pigment.

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Zinc oxide	10 - <25%	1314-13-2	215-222-5	01- 2119463881- 32-XXXX	Not applicable	#

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Silicic acid, ethyl ester	1 - <5%	11099-06-2	234-324-0	No data available.	Not applicable	
Octamethylcyc lotetrasiloxane	0,25 - <1%	556-67-2	209-136-7	01- 2119529238- 36-XXXX	Aquatic Toxicity (Chronic): 10	PBT, vPvB
Decamethylcy clopentasiloxa ne	0,1 - <1%	541-02-6	208-764-9	01- 2119511367- 43-XXXX	Not applicable	√P√B
Dodecamethyl cyclohexasilox ane	0,1 - <1%	540-97-6	208-762-8	01- 2119517435- 42-XXXX	Not applicable	vPvB

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

PBT: persistent, bioaccumulative and toxic substance.

Classification

Chemical name	Classification	Notes
Zinc oxide	Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410; No data	No data
	available.	available.
Silicic acid, ethyl ester	Flam. Liq.: 3: H226; STOT SE: 3: H335; Eye Dam.: 2: H319;	
	Acute Tox.: 4: H302;	
Octamethylcyclotetrasiloxa	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1:	No data
ne	H410;	available.
Decamethylcyclopentasilo	No data available.	
xane		
Dodecamethylcyclohexasil	No data available.	
oxane		

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: Move into fresh air and keep at rest. Get medical attention if symptoms

occur.

4.1 Description of first aid measures

Inhalation: Move the exposed person to fresh air at once.

Eye contact: Rinse the eye with water immediately. Get medical attention if symptoms

occur.

Skin Contact: After contact with skin, remove product mechanically. Flush contaminated

skin with plenty of water.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Do

NOT induce vomiting. Consult a physician for specific advice.

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

vPvB: very persistent and very bioaccumulative substance.



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4.2 Most important symptoms and effects, both acute and delaved:

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

No data available. **Treatment:**

SECTION 5: Firefighting measures

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

involved materials.

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. Exposure to fire can generate toxic fumes. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

5.3 Advice for firefighters Special fire-fighting procedures:

To prevent and minimize fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system. Cool

fire-endangered containers with water.

Special protective

equipment for fire-fighters:

Prevent runoff from fire control or dilution from entering streams, sewers, or

drinking water supply.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Use only in well-ventilated areas.

6.2 Environmental Precautions:

Do not allow runoff to sewer, waterway or ground.

6.3 Methods and material for containment and cleaning

Absorb spillage with suitable absorbent material. Sweep up and shovel into

suitable containers for disposal. Clean thoroughly.

6.4 Reference to other

sections:

See Section 8 of the SDS for Personal Protective Equipment. Collect and dispose of spillage as indicated in section 13 of the SDS.

SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Avoid contact with skin and eyes. Wear appropriate personal protective equipment. Use only in well-ventilated areas.

Storage conditions: No data available.

7.2 Conditions for safe storage,

including any incompatibilities: Keep container tightly closed in a cool, well-ventilated place. Keep away from water or moist air.

Storage Stability: No data available.

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

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Calcium Carbonate - Respirable dust.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)
Calcium Carbonate - Inhalable dust.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)
Calcium Carbonate - Respirable.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Calcium Carbonate - Inhalable	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Calcium Carbonate - Inhalable dust.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Calcium Carbonate - Respirable dust.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Zinc oxide - Inhalable dust.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)
Zinc oxide - Respirable dust.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)

Biological Limit Values

None.

8.2 Exposure controls

Appropriate Engineering Controls:

Eye wash facilities and emergency shower must be available when

handling this product. Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

General information: Do not eat, drink or smoke when using the product.

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

Skin protection

Hand Protection: Advice: This recommendation is valid only for our Product as delivered. If

> this product will be mixed with other substances you need to contact a supplier of CE approved protective gloves (e.g. KCL GmbH, D-36124 Eichenzell, Tel. 0049 (0) 6659 87300, Fax. 0049 (0) 6659 87155, email:

vertrieb@kcl.de). Material: 730 Camatril

Minimum break through time: 480 min

Glove thickness: 0,4 mm Guideline: EN 374

Other: Wear suitable protective clothing.

Use only in well-ventilated areas. In case of inadequate ventilation use **Respiratory Protection:**

suitable respirator.

Hygiene measures: Observe good industrial hygiene practices. Good personal hygiene is

> necessary. Wash hands and contaminated areas with water and soap before leaving the work site. When using do not eat, drink or smoke.

Environmental exposure

controls:

No data available.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: White
Odor: Faint

Odor Threshold:No data available.pH:No data available.Freezing point:No data available.

Boiling Point: > 300 °C

Flash Point: > 121 °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. No data available. Density: Relative density: No data available.

Solubility(ies)

Solubility in Water:
Solubility (other):
No data available.
No data available.
Partition coefficient (n-octanol/water) Log
No data available.

Pow:

Autoignition Temperature: No data available.

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

SADT:

Viscosity, dynamic:

Viscosity, kinematic:

No data available.

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: No data available.

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: No data available.

10.5 Incompatible Materials: Reacts with water liberating small amounts of methanol. Avoid contact with

acids and oxidizing substances.

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10.6 Hazardous Decomposition **Products:**

Oxides of silicon. Carbon oxides Tin fumes. 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: Experience has shown, that the above mentioned product can be used

without any danger to health, as long as the usual conditions of industrial

hygiene are observed.

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eve contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 25.000 mg/kg

Specified substance(s)

Zinc oxide LD 50 (Rat): > 5.000 mg/kg

Silicic acid, ethyl ester

No data available. Octamethylcyclotetrasilox LD 50 (Rat): > 4.800 mg/kg

No data available. Decamethylcyclopentasil

oxane

Dodecamethylcyclohexas

iloxane

LD 50 (Rat): 2.000 mg/kg

Dermal

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

Specified substance(s)

Zinc oxide No data available. Silicic acid, ethyl ester No data available.

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

oxane

Decamethylcyclopenta

siloxane

LD 50 (Rabbit): > 2.000 mg/kg

Dodecamethylcyclohex

asiloxane

Inhalation

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

LD 50 (Rat): 2.000 mg/kg

Specified substance(s)

No data available. Zinc oxide Silicic acid, ethyl ester No data available. LC50 (Rat, 4 h): 36 mg/l

Octamethylcyclotetrasilox

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

oxane

Dodecamethylcyclohexas No data available.

iloxane

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Repeated dose toxicity

Product: No data available.

Specified substance(s)

Zinc oxide No data available. Silicic acid, ethyl ester No data available. Octamethylcyclotetrasilox No data available.

ane

Decamethylcyclopentasil

oxane

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

Dodecamethylcyclohexas

iloxane

NOAEL (Rat(male and female), Oral): 1.000 mg/kg

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Zinc oxide (Rabbit): No skin irritation

Silicic acid, ethyl ester No data available.

Octamethylcyclotetrasil

oxane

OECD Test Guideline 404 (Rabbit): Non irritating

Decamethylcyclopentas

iloxane

OECD Test Guideline 404 (Rabbit, 72 h): Non irritating

Dodecamethylcyclohex asiloxane

OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h):

No skin irritation

No data available.

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

(Rabbit): slightly irritating (not classified according to the German Zinc oxide

Dangerous Substances legislation)

Silicic acid, ethyl ester

Octamethylcyclotetrasil

oxane

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

Decamethylcyclopentas

iloxane

OECD Test Guideline 405 (Rabbit, 72 h): Non irritating

Dodecamethylcyclohex

asiloxane

OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): No

eye irritation Not irritating

Respiratory or Skin Sensitization:

> Product: No data available.

Specified substance(s)

No data available. Zinc oxide Silicic acid, ethyl ester No data available.

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

Pig): Not sensitizing

Decamethylcyclopentas iloxane

LLNA (Local Lymph Node Assay), OECD Guideline 429 (LLNA)

(Mouse): Non sensitizing.

Dodecamethylcyclohex

asiloxane

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

Pig): negative

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Zinc oxide No data available.

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Silicic acid, ethyl ester Octamethylcyclotetrasilox

oxane

No data available.

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

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

Decamethylcyclopentasil 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)

Dodecamethylcyclohexas

iloxane

No data available.

In vivo **Product:**

No data available.

No data available.

Specified substance(s)

Zinc oxide Silicic acid, ethyl ester Octamethylcyclotetrasilox

No data available. Chromosomal aberration (OECD 475) Inhalation (Rat, male and female):

negative

Decamethylcyclopentasil

Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female)negative (not mutagenic) Vapor.

Dodecamethylcyclohexas

iloxane

OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal

(Mouse, male and female): negative

Carcinogenicity

Product: No data available.

Specified substance(s)

Zinc oxide Silicic acid, ethyl ester Octamethylcyclotetrasilox

Decamethylcyclopentasil

oxane

Dodecamethylcyclohexas

iloxane

No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Zinc oxide Silicic acid, ethyl ester Octamethylcyclotetrasilox

No data available. No data available.

No data available.

Decamethylcyclopentasil

oxane

No data available.

Dodecamethylcyclohexas iloxane

No data available.

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

Specified substance(s)

Zinc oxide No data available. Silicic acid, ethyl ester No data available. Octamethylcyclotetrasilox No data available. ane

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Decamethylcyclopentasil

oxane

No data available.

Dodecamethylcyclohexas iloxane

No data available.

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Zinc oxide No data available. Silicic acid, ethyl ester No data available. Octamethylcyclotetrasilox No data available.

ane

Decamethylcyclopentasil

oxane

Dodecamethylcyclohexas No data available.

iloxane

Aspiration Hazard

Product: No data available.

Specified substance(s)

Żinc oxide No data available. Silicic acid, ethyl ester No data available. Octamethylcyclotetrasilox No data available.

Decamethylcyclopentasil

oxane

Dodecamethylcyclohexas

iloxane

No data available.

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:

Zinc oxide No data available. Silicic acid, ethyl ester No data available. No data available. Octamethylcyclotetrasilo

xane

Decamethylcyclopentasil No data available.

oxane

Dodecamethylcyclohexa

siloxane

No data available.

Other effects:

Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane

(1600mg/kg/day,14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver

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weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

No data available. **Product:**

Specified substance(s)

Zinc oxide No data available. Silicic acid, ethyl ester No data available.

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

0.022 mg/l

oxane

Decamethylcyclopentasil LC50 (Oncorhynchus mykiss, 96 h): > 0,0016 mg/l (OECD-Guideline 204)

Dodecamethylcyclohexas

iloxane

No data available.

Aquatic Invertebrates

No data available. **Product:**

Specified substance(s)

Zinc oxide No data available. Silicic acid, ethyl ester No data available.

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

Decamethylcyclopentasil

Dodecamethylcyclohexas

iloxane

EC50 (Daphnia magna, 48 h): > 0,0029 mg/l (OECD Test Guideline 202)

No data available.

Chronic Toxicity

Fish

Product: No data available.

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Specified substance(s)

Zinc oxide No data available. Silicic acid, ethyl ester No data available.

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

0,0044 mg/l

NOEC (Oncorhynchus mykiss, 90 d): >= 0,0014 mg/l (OECD-Guideline Decamethylcyclopentasil oxane

210)

LOEC (Oncorhynchus mykiss, 90 d): > 0,0014 mg/l (OECD-Guideline 210) Dodecamethylcyclohexas No toxicity at the limit of solubility; NOEC (Oncorhynchus mykiss, 91 d):

0,014 mg/l iloxane

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Zinc oxide No data available. Silicic acid, ethyl ester No data available.

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

NOEC (Daphnia magna, 21 d): >= 0,0015 mg/l (OECD-Guideline 211) Decamethylcyclopentasil

LOEC (Daphnia magna, 21 d): > 0,0015 mg/l oxane

Dodecamethylcyclohexas No toxicity at the limit of solubility; NOEC (Daphnia magna, 21 d): 0,0046

mg/l

EC50 (Sediment Invertebrate, 28 d): > 420 mg/l LOEC (Sediment Invertebrate, 28 d): >= 420 mg/l

Toxicity to Aquatic Plants

iloxane

Product: No data available.

Specified substance(s)

No data available. Zinc oxide Silicic acid, ethyl ester No data available.

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

h): > 0.022 mg/l

EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0,0012 mg/l Decamethylcyclopentasil

(OECD Test Guideline 201) oxane NOEC : >= 0,0012 mg/lEC10 :> 0.0012 mg/l

No effects at the limit of solubility.; EC50 (Algae (Pseudokirchneriella Dodecamethylcyclohexas

subcapitata), 72 h): > 0,002 mg/l (OECD Test Guideline 201) iloxane

No effects at the limit of solubility.; NOEC (Algae (Pseudokirchneriella

subcapitata), 72 h): >= 0,002 mg/l (OECD Test Guideline 201)

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Zinc oxide No data available. Silicic acid, ethyl ester No data available.

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

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

Decamethylcyclopentasil activated sludge (adaptation not specified) (28 d, OECD Test Guideline 310):

0,14 % The product is not readily biodegradable.

Dodecamethylcyclohexas No data available.

iloxane

BOD/COD Ratio

Product No data available.

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Specified substance(s)

Zinc oxide No data available.
Silicic acid, ethyl ester No data available.
Octamethylcyclotetrasilox No data available.

ane

Decamethylcyclopentasil

oxane

Dodecamethylcyclohexas

iloxane

No data available.

No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Zinc oxide No data available. Silicic acid, ethyl ester No data available.

Octamethylcyclotetrasilox Bioconcentration Factor (BCF): 12.400

ane

Decamethylcyclopentasil

oxane

Fathead Minnow, Bioconcentration Factor (BCF): 7.060 (OECD Test

Guideline 305) No data available.

Dodecamethylcyclohexas

iloxane

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Zinc oxide No data available. Silicic acid, ethyl ester No data available. Octamethylcyclotetrasiloxa No data available.

ne

Decamethylcyclopentasilox

ane

Dodecamethylcyclohexasilo No data available.

xane

12.5 Results of PBT and vPvB assessment:

Zinc oxide
Silicic acid, ethyl ester
Octamethylcyclotetrasiloxane

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)

to land, or to living organisms.

No data available.

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,

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Decamethylcyclopentasiloxane

vPvB: very persistent and

verv

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 aguatic 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.

Dodecamethylcyclohexasiloxane

vPvB: verv persistent and very

bioaccumulative substance.

Dodecamethylcyclohexasiloxane (D6) 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 D6 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 D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by naturally occurring reactions in the atmosphere. Any D6 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:

Zinc oxide No data available. Silicic acid, ethyl ester No data available. Octamethylcyclotetrasilo No data available.

xane

Decamethylcyclopentasil

oxane

No data available.

Dodecamethylcyclohexa

siloxane

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

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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 foodstuffs and animal feed.

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

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EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Chemical name	CAS-No.	Concentration
Octamethylcyclotetrasiloxane	556-67-2	0 - <=0,2680%
Decamethylcyclopentasiloxane	541-02-6	0 - <=0,1770%
Dodecamethylcyclohexasiloxane	540-97-6	0 - <=0,1620%

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

Chemical name	CAS-No.	Concentration
Octamethylcyclotetrasiloxane	556-67-2	0,1 - 1,0%
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.:

Chemical name	CAS-No.	Concentration
Octamethylcyclotetrasiloxane	556-67-2	0,1 - 1,0%

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier
		Requirements
E2. Hazardous to the aquatic	200 t	500 t
environment		

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No.	Concentration
Zinc oxide	1314-13-2	10 - 20%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Zinc oxide	1314-13-2	10 - 20%
Octamethylcyclotetrasiloxane	556-67-2	0,1 - 1,0%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Remarks: None.

Inventory Status

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.

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Remarks: None.

Remarks: None.

Remarks: None.

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Australia AICS: On or in compliance with the Remarks: None.

inventory

Canada DSL Inventory List: On or in compliance with the Remarks: None.

inventory

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

inventory

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

inventory

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

Substances: inventory

On or in compliance with the

Korea Existing Chemicals Inv. inventory

(KECI):

Canada NDSL Inventory: Not in compliance with the

inventory.

Philippines PICCS: On or in compliance with the Remarks: None.

inventory

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

inventory

New Zealand Inventory of

Chemicals:

On or in compliance with the

inventory

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

Inventory: inventory

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

Flammable liquid and vapor. H226

Harmful if swallowed. H302

H319 Causes serious eye irritation. H335 May cause respiratory irritation. H361f Suspected of damaging fertility.

H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects. H410 H411 Toxic to aquatic life with long lasting effects.

Training information: No data available.

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

1. H400

Aquatic Chronic 2, H411

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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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