

RTV229B

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

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

1.1 Product identifier

Product name: RTV229B

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

Identified uses: Silicone Elastomer (B)

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 : MomentiveEMEA.productsteward@momentive.com

Telephone : General information
00800.4321.1000 (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.

Health Hazards

Serious eye damage Category 1 H318: Causes serious eye damage.

Toxic to reproduction Category 1B H360FD: May damage fertility. May damage the unborn child.

Environmental Hazards

Chronic hazards to the aquatic environment Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label Elements

Contains: Gamma-Aminopropyltrimethoxysilane
DIBUTYL TINOXIDE (48% as Tin)



Signal Words: Danger

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Hazard Statement(s): H318: Causes serious eye damage.
H360FD: May damage fertility. May damage the unborn child.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.
P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage: P405: Store locked up.

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.

Supplemental label information

Contains: DIBUTYL TINOXIDE (48% as Tin) May produce an allergic reaction.

Unknown toxicity - Health

Acute toxicity, oral	0 %
Acute toxicity, dermal	0 %
Acute toxicity, inhalation, vapor	0 %
Acute toxicity, inhalation, dust or mist	0 %

Unknown toxicity - Environment

Acute hazards to the aquatic environment	0 %
Chronic hazards to the aquatic environment	0 %

Additional Information: No data available.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

Chemical nature: Preparation containing polydimethylsiloxane with vinyl-groups, filler and catalyst.

3.2 Mixtures

General information: No data available.

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Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Tris(3(trimethoxysilyl)propyl)isocyanurate	5 - <10%	26115-70-8	247-465-8	MP471235-22	No data available.	
Gamma-Aminopropyltrimethoxysilane	5 - <10%	13822-56-5	237-511-5	01-2119510159-45-0001	No data available.	
Octamethylcyclotetrasiloxane	0,1 - <1%	556-67-2	209-136-7	01-2119529238-36-0001	No data available.	PBT, vPvB
DIBUTYL TINOXIDE (48% as Tin)	0,3 - <1%	818-08-6	212-449-1	01-2119496058-28-0001	No data available.	#
Di-(2-ethylhexyl)phthalate	0,1 - <0,3%	117-81-7		No data available.	1	#
Decamethylcyclopentasiloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367-43-0002	No data available.	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;	
Gamma-Aminopropyltrimethoxysilane	Eye Dam.: 1: H318; Skin Corr.: 2: H315;	No data available.
Octamethylcyclotetrasiloxane	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 2: H411;	No data available.
DIBUTYL TINOXIDE (48% as Tin)	Acute Tox.: 3: H301; Eye Dam.: 1: H318; Repr.: 1B: H360FD; Muta.: 2: H341; Skin Corr.: 2: H315; Skin Sens.: 1: H317; STOT SE: 1: H370; Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410;	No data available.
Di-(2-ethylhexyl)phthalate	Repr.: 1B: H360FD; No data available.	No data available.
Decamethylcyclopentasiloxane	No data available.	

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.

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Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
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.
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:	No data available.

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. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation. Reacts with water liberating small amounts of methanol.
5.3 Advice for firefighters	
Special fire fighting procedures:	No data available.
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 up:	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.

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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 and in a well-ventilated place.
- Storage Stability:** No data available.
- 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
Carbon Black	STEL	7 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	3,5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	7 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	3,5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
DIBUTYL TINOXIDE (48% as Tin) - as Sn	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	0,2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Di-(2-ethylhexyl)phthalate	STEL	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

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: Provide adequate ventilation if fumes or vapors are generated. Use personal protective equipment as required. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist.

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

Skin protection

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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.
Respiratory Protection:	Use only in well-ventilated areas. In case of inadequate ventilation use suitable respirator.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before eating, drinking, or smoking. Avoid contact with eyes, skin, and clothing.
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:	liquid
Color:	Black
Odor:	amine like
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	Not applicable
Flash Point:	> 100 °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.
Vapor density (air=1):	No data available.
Density:	ca. 1,020 g/cm ³
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Reactive.
Solubility (other):	No data available.
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:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
Explosive properties:	No data available.

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Oxidizing properties: 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 polymerisation 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.
- 10.6 Hazardous Decomposition Products:** Oxides of silicon. Carbon oxides 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.
- Eye contact:** No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

- Product:** ATEmix: 9.944,12 mg/kg
- Specified substance(s)**
- Tris(3(trimethoxysilyl)propyl)isocyanurate LD 50 (Rat): 1.460 mg/kg
- Gamma-Aminopropyltrimethoxysilane No data available.
- Octamethylcyclotetrasiloxane LD 50 (Rat): 4.800 mg/kg
- DIBUTYL TINOXIDE (48% as Tin) LD 50 (Rat): 487 mg/kg
- Di-(2-ethylhexyl)phthalate No data available.
- 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 (Rat): 16.000 mg/kg

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Gamma-Aminopropyltrimethoxy silane	LD 50 (Rabbit): > 2.000 mg/kg
Octamethylcyclotetrasiloxane	LD 50 (Rat): > 2.400 mg/kg
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	No data available.
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.
Gamma-Aminopropyltrimethoxysilane	No data available.
Octamethylcyclotetrasiloxane	LC50 (Rat, 4 h): 36 mg/l
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	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.
Gamma-Aminopropyltrimethoxysilane	NOAEL (Rat(male and female), Oral): 200 mg/kg LOAEL (Rat(male and female), Oral): 600 mg/kg
Octamethylcyclotetrasiloxane	NOAEL (Rat(male and female), Inhalation - vapor(vapour)): 150 mg/kg NOAEL (Rabbit(male and female), Dermal): 950 mg/kg LOAEL (Rabbit(male and female), Dermal): 950 mg/kg
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	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	No data available.
Gamma-Aminopropyltrimethoxy silane	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h): Irritating.
Octamethylcyclotetrasiloxane	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin irritation
DIBUTYL TINOXIDE (48% as Tin)	No data available.

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Di-(2-ethylhexyl)phthalate No data available.
 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 No data available.
 Gamma-Aminopropyltrimethoxysilane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): Strongly irritating. Risk of serious damage to eyes.
 Octamethylcyclotetrasiloxane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Not irritating
 DIBUTYL TINOXIDE (48% as Tin) No data available.
 Di-(2-ethylhexyl)phthalate No data available.
 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 No data available.
 Gamma-Aminopropyltrimethoxysilane , OECD Test Guideline 406 (Guinea Pig) Did not cause sensitization on laboratory animals.
 Octamethylcyclotetrasiloxane Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): Not sensitizing
 DIBUTYL TINOXIDE (48% as Tin) No data available.
 Di-(2-ethylhexyl)phthalate No data available.
 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 No data available.
 Gamma-Aminopropyltrimethoxysilane Salmonella Typhimurium/ Escherichia coli (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative
 Chinese Hamster Ovary (CHO): negative
 Chromosomal aberration (OECD 473): negative
 Octamethylcyclotetrasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)
 Mouse Lymphoma Assay (OECD Guideline 476): negative (not mutagenic)
 DIBUTYL TINOXIDE (48% as Tin) No data available.
 Di-(2-ethylhexyl)phthalate No data available.

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Decamethylcyclopentasil oxane
Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)
Mammalian cytogenicity test (Mouse Lymphoma Assay (OECD Guideline 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.
Gamma-Aminopropyltrimethoxysilane Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal (Mouse): negative
Octamethylcyclotetrasiloxane Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative
Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative
DIBUTYL TINOXIDE (48% as Tin) No data available.
Di-(2-ethylhexyl)phthalate No data available.
Decamethylcyclopentasil oxane (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.
Gamma-Aminopropyltrimethoxysilane No data available.
Octamethylcyclotetrasiloxane No data available.
DIBUTYL TINOXIDE (48% as Tin) No data available.
Di-(2-ethylhexyl)phthalate No data available.
Decamethylcyclopentasil oxane No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate No data available.
Gamma-Aminopropyltrimethoxysilane No data available.
Octamethylcyclotetrasiloxane No data available.
DIBUTYL TINOXIDE (48% as Tin) No data available.
Di-(2-ethylhexyl)phthalate No data available.
Decamethylcyclopentasil oxane No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

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Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Gamma-Aminopropyltrimethoxysilane	No data available.
Octamethylcyclotetrasiloxane	No data available.
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	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.
Gamma-Aminopropyltrimethoxysilane	No data available.
Octamethylcyclotetrasiloxane	No data available.
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	No data available.
Decamethylcyclopentasiloxane	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Gamma-Aminopropyltrimethoxysilane	No data available.
Octamethylcyclotetrasiloxane	No data available.
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	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)pro	No data available.
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pyl)isocyanurate	
Gamma-Aminopropyltrimethoxysilane	LC50 (Brachydanio rerio, 96 h): > 934 mg/l (OECD-Guideline 203 (Fish, Acute Toxicity Test))
Octamethylcyclotetrasiloxane	No data available.
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	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.
Gamma-Aminopropyltrimethoxysilane	LC50 (Daphnia magna, 48 h): 331 mg/l (OECD Test Guideline 202)
Octamethylcyclotetrasiloxane	No data available.
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	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.
Gamma-Aminopropyltrimethoxysilane	No data available.
Octamethylcyclotetrasiloxane	No data available.
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	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.
Gamma-Aminopropyltrimethoxysilane	No data available.
Octamethylcyclotetrasiloxane	No data available.
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	No data available.

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Decamethylcyclopentasiloxane NOEC (Daphnia magna, 21 d): $\geq 0,0015$ 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.
 Gamma-Aminopropyltrimethoxysilane EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1.000 mg/l
 EC50 (Desmodesmus subspicatus (green algae), 72 h): > 603 mg/l
 NOEC (Desmodesmus subspicatus (green algae), 72 h): $1,3$ mg/l
 Octamethylcyclotetrasiloxane No data available.
 DIBUTYL TINOXIDE (48% as Tin) No data available.
 Di-(2-ethylhexyl)phthalate No data available.
 Decamethylcyclopentasiloxane EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): $> 0,0012$ mg/l (OECD Test Guideline 201)
 NOEC : $\geq 0,0012$ 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 No data available.
 Gamma-Aminopropyltrimethoxysilane activated sludge, domestic (adaptation not specified) (28 d): 67 % The product is not readily biodegradable.
 Octamethylcyclotetrasiloxane (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace Test)): 3,7 % Persistent Not readily biodegradable.
 DIBUTYL TINOXIDE (48% as Tin) No data available.
 Di-(2-ethylhexyl)phthalate No data available.
 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.
 Gamma-Aminopropyltrimethoxysilane No data available.
 Octamethylcyclotetrasiloxane No data available.
 DIBUTYL TINOXIDE (48% as Tin) No data available.
 Di-(2-ethylhexyl)phthalate No data available.
 Decamethylcyclopentasiloxane No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

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Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Gamma-Aminopropyltrimethoxysilane	The product is not bioaccumulating. hydrolyses
Octamethylcyclotetrasiloxane	Fathead Minnow, Bioconcentration Factor (BCF): 12,40
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	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.
Gamma-Aminopropyltrimethoxysilane	No data available.
Octamethylcyclotetrasiloxane	No data available.
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	No data available.
Decamethylcyclopentasiloxane	No data available.

12.5 Results of PBT and vPvB assessment:

	Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Gamma-Aminopropyltrimethoxysilane	No data available.
Octamethylcyclotetrasiloxane	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)., <i>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.</i>
DIBUTYL TINOXIDE (48% as Tin)	No data available.
Di-(2-ethylhexyl)phthalate	No data available.

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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)., <i>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.</i>
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12.6 Other adverse effects: No data 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: Keep away from foodstuffs and animal feed. This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

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

Not applicable
SDS_GB

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SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals:

Chemical name	CAS-No.	Concentration
DIBUTYL TINOXIDE (48% as Tin)	818-08-6	0,1 - 1,0%

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

Chemical name	CAS-No.	Concentration
Di-(2-ethylhexyl)phthalate	117-81-7	0,1 - 1,0%

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

Chemical name	CAS-No.	Concentration
Octamethylcyclotetrasiloxane	556-67-2	0 - <=0,5570%
Di-(2-ethylhexyl)phthalate	117-81-7	0,1 - 1,0%
Decamethylcyclopentasiloxane	541-02-6	0 - <=0,2000%

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

Chemical name	CAS-No.	Concentration
DIBUTYL TINOXIDE (48% as Tin)	818-08-6	0,1 - 1,0%
Di-(2-ethylhexyl)phthalate	117-81-7	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
Di-(2-ethylhexyl)phthalate	117-81-7	0,1 - 1,0%

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
Di-(2-ethylhexyl)phthalate	117-81-7	0,1 - 1,0%

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

Chemical name	CAS-No.	Concentration
Di-(2-ethylhexyl)phthalate	117-81-7	0,1 - 1,0%
DIBUTYL TINOXIDE (48% as Tin)	818-08-6	0,1 - 1,0%

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

Chemical name	CAS-No.	Concentration
Di-(2-ethylhexyl)phthalate	117-81-7	0,1 - 1,0%

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Octamethylcyclotetrasiloxane	556-67-2	0,1 - 1,0%
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15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

Inventory Status

Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
Australia AICS:	On or in compliance with the inventory	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	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: No data available.

Wording of the H-statements in section 2 and 3

H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damage the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.

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H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Training information: No data available.

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

Skin Corr. 2, H315
Eye Dam. 1, H318
Repr. 1B, H360FD
Aquatic Chronic 3, H412

Issue Date: 12.12.2018

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 warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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