

RTV560/DBT

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: RTV560/DBT

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/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

Specific Target Organ Toxicity - Repeated Exposure Category 2 H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label Elements

Contains: Cristobalite



Signal Words: Warning

Hazard Statement(s): H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray.

RTV560/DBT

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 - Health

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

Additional Information: No data available.

2.3 Other hazards No data available.

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
Cristobalite	5 - <10%	14464-46-1	238-455-4	No data available.	No data available.	#
Silicic acid, ethyl ester	1 - <5%	11099-06-2	234-324-0	No data available.	No data available.	
Tetraethyl Silicate	0,1 - <1%	78-10-4	201-083-8	01-2119496195-28-0002	No data available.	#

* 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
Cristobalite	STOT RE: 1: H372;	
Silicic acid, ethyl ester	Flam. Liq.: 3: H226; STOT SE: 3: H335; Eye Dam.: 2: H319; Acute Tox.: 4: H302;	
Tetraethyl Silicate	Flam. Liq.: 3: H226; Acute Tox.: 4: H332; Eye Irrit.: 2: H319; STOT SE: 3: H335;	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.

RTV560/DBT

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.

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.

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:**

All equipment used when handling the product must be grounded.

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.

RTV560/DBT

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Wear appropriate personal protective equipment. See Section 8 of the SDS for 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.

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
Red iron oxide - Fume. - as Fe	STEL	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Red iron oxide - Respirable.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Red iron oxide - Inhalable	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Red iron oxide - Fume. - as Fe	TWA	5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Kieselguhr, soda ash flux-calcined - Inhalable dust.	TWA	6 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Kieselguhr, soda ash flux-calcined - Respirable dust.	TWA	2,4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Kieselguhr, soda ash flux-calcined - Respirable.	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Cristobalite - Respirable.	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Cristobalite - Fiber.	TWA	5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Tetraethyl Silicate	TWA	5 ppm 44 mg/m3	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (02 2017)
	TWA	5 ppm 44 mg/m3	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL (2014)
QUARTZ - Respirable.	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

Biological Limit Values

None.

DNEL-Values

Critical component	Type	Route of Exposure		Remarks
Tetraethyl Silicate	Workers	Dermal	12,1 mg/kg bw/day	

RTV560/DBT

		Inhalation	85 mg/m3	
			85 mg/m3	
		Dermal	12,1 mg/kg bw/day	
		Inhalation	85 mg/m3	
			85 mg/m3	
	Consumers	Dermal	8,4 mg/kg bw/day	
		Inhalation	25 mg/m3	
			25 mg/m3	
		Dermal	8,4 mg/kg bw/day	
		Inhalation	25 mg/m3	
			25 mg/m3	

PNEC-Values

Critical component	Environmental compartment		Remarks
Tetraethyl Silicate	Water	0,192 mg/l	
	Seawater	0,0192 mg/l	
	Intermittent release	10 mg/l	
	Sediment	0,18 mg/kg	Derived from PNEC(freshwater) using the equilibrium partitioning method.
	soil	0,05 mg/kg	Derived from PNEC(freshwater) using the equilibrium partitioning method.
	Sewage treatment plant	4000 mg/l	

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:

No data available.

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.

Respiratory Protection:

Use only in well-ventilated areas. In case of inadequate ventilation use 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.

SECTION 9: Physical and chemical properties

RTV560/DBT

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Red
Odor:	Faint
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	> 285 °C
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. 1,42 g/cm ³
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble
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:	ca. 30.000 mPa·s
Viscosity, kinematic:	No data available.
Explosive properties:	No data available.
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 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

RTV560/DBT

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: 31.293,03 mg/kg
- Specified substance(s)**
 - Cristobalite LD 50 (Rat): 5.000 mg/kg
 - Silicic acid, ethyl ester No data available.
 - Tetraethyl Silicate No data available.

Dermal

- Product:** Not classified for acute toxicity based on available data.
- Specified substance(s)**
 - Cristobalite No data available.
 - Silicic acid, ethyl ester No data available.
 - Tetraethyl Silicate No data available.

Inhalation

- Product:** Not classified for acute toxicity based on available data.
- Specified substance(s)**
 - Cristobalite No data available.
 - Silicic acid, ethyl ester No data available.
 - Tetraethyl Silicate No data available.

Repeated dose toxicity

- Product:** No data available.
- Specified substance(s)**
 - Cristobalite No data available.
 - Silicic acid, ethyl ester No data available.
 - Tetraethyl Silicate NOAEL (Rat(male and female), Oral, 28 d): 10 - 50 mg/kg
 LOAEL (Mouse(males), Inhalation, 28 d): 50 mg/kg

Skin Corrosion/Irritation:

- Product:** No data available.
- Specified substance(s)**
 - Cristobalite No data available.
 - Silicic acid, ethyl ester No data available.
 - Tetraethyl Silicate OECD Test Guideline 404 (Rabbit): Non irritating

Serious Eye Damage/Eye Irritation:

- Product:** No data available.
- Specified substance(s)**
 - Cristobalite No data available.
 - Silicic acid, ethyl ester No data available.

RTV560/DBT

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

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate Sensitisation, skin, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): Non sensitizing.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate Chinese Hamster Ovary (CHO) (OECD 476): negative
 Chromosomal aberration (OECD 473): negative

In vivo

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

RTV560/DBT

Aspiration Hazard

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate 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)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate LC50 (Brachydanio rerio, 96 h): > 245 mg/l (Tested according to Directive 92/69/EEC.)

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate EC50 (Daphnia magna, 48 h): > 75 mg/l (OECD-Guideline 202)

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l (OECD Test Guideline 201)

RTV560/DBT

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate activated sludge, domestic (adaptation not specified) (28 d, OECD-Guideline 301 A (DOC Die-Away Test)): 98 % Readily biodegradable

BOD/COD Ratio

Product No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

12.4 Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

12.5 Results of PBT and vPvB assessment:

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

Cristobalite No data available.
 Silicic acid, ethyl ester No data available.
 Tetraethyl Silicate No data available.

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. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.

Disposal methods:

Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information

ADR

Not regulated.

ADN

Not regulated.

RTV560/DBT

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 (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: none

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

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

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

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

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

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

Chemical name	CAS-No.	Concentration
Tetraethyl Silicate	78-10-4	0,1 - 1,0%

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

Chemical name	CAS-No.	Concentration
Red iron oxide	1309-37-1	20 - 30%

RTV560/DBT

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

Chemical name	CAS-No.	Concentration
Tetraethyl Silicate	78-10-4	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
Tetraethyl Silicate	78-10-4	0,1 - 1,0%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	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.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	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.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

Training information: No data available.

Issue Date: 12.08.2018

RTV560/DBT

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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