

RTV 118

# SAFETY DATA SHEET

## 1. Identification of the hazardous chemical and of the supplier

**Product identifier:** RTV 118

### Recommended use of the chemical and restrictions on use

**Recommended use:** Silicone Elastomer

**Recommended restrictions:** Not known.

### Details of principal suppliers

**Manufacturer/Importer/Distributor Information** : Momentive Performance Materials (Thailand) Limited  
1/2 Moo 4, Asia Industrial Estate, Rayong, 21130  
Thailand

**Contact person** : commercial.services@momentive.com

**Telephone** : +66-3899 7899

**Telefax** : +66-3899 7888

**Emergency telephone number** : 001 800 120 666 751 / +65 3158 1074

**Responsible Department** : Product Stewardship & Compliance

## 2. Hazard(s) identification

**GHS classification of substance or mixture, and national or regional information :**  
Not classified

### GHS label elements

**Hazard symbol(s):** No symbol

**Signal Word:** none

**Hazard Statement(s):** Not applicable

### Precautionary statement(s):

**Prevention:** Not applicable

**Response:** Not applicable

**Storage:** Not applicable

**Disposal:** Not applicable

**Other hazards which do not result in GHS classification:** None known.

## 3. Composition and information of the ingredients of the hazardous chemical

**Chemical nature:** Mixture of polydimethylsiloxanes, fillers and cross-linkers.

**RTV 118**

**Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Silica	7631-86-9	10 - <30%
Octamethylcyclotetrasiloxane	556-67-2	1 - <3%
Acetic acid	64-19-7	<1%

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

(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

**4. First-aid measures**

**Description of necessary first-aid measures**

- Inhalation:** Move to fresh air.
- Skin Contact:** To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. If skin irritation occurs: Get medical advice/attention.
- Eye contact:** Rinse the eye with water immediately. If eye irritation persists: Get medical advice/attention.
- Ingestion** Do not induce vomiting. Rinse mouth. Consult a physician for specific advice.

**Most important symptoms/effects, acute and delayed**

- Symptoms:** No data available.
- Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

- Treatment:** Treatment is symptomatic and supportive.

**5. Fire-fighting measures**

**Suitable (and unsuitable) 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.

**Specific hazards arising from the chemical:** Pay attention to the corrosive effects arising from contact with water.

**Special protective action for fire fighters**

**RTV 118**

**Special fire fighting procedures:** Keep away from sources of ignition - No smoking.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus and protective clothing.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Provide adequate ventilation. Use personal protective equipment.

**Environmental Precautions:** No data available.

**Methods and material for containment and cleaning up:** Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

**7. Handling and storage**

**Precautions to ensure safe handling:** Sensitivity to static discharge is not expected.

**Conditions for safe storage, including any incompatibilities:** Keep out of the reach of children. Keep container tightly closed.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Silica Inhalable particulate.	Time Weighted Average (TWA):	10 mg/m <sup>3</sup>	Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations), as amended 03 2000
Silica Respirable particles.	Time Weighted Average (TWA):	3 mg/m <sup>3</sup>	Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations), as amended 03 2000
Acetic acid	Time Weighted Average (TWA):	10 ppm 25 mg/m <sup>3</sup>	Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations), as amended 03 2000
(1) Silica - Respirable particles.	TWA	3 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (01 2021)
(1) Silica - Inhalable particles.	TWA	10 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (01 2021)

**RTV 118**

Acetic acid	TWA	10 ppm	US. ACGIH Threshold Limit Values, as amended (03 2015)
	STEL	15 ppm	US. ACGIH Threshold Limit Values, as amended (03 2015)

This product contains one or more substances with an occupational exposure limit. However, the respirable particle(s) of this/these substance(s) are inextricably bound within the polymer matrix. Therefore, we do not expect an exposure to this/these substance(s) during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

**Biological Limit Values**

None of the components have assigned exposure limits.

**Appropriate Engineering Controls:** Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**General information:** Wear suitable gloves and eye/face protection.

**Eye/face protection:** Safety glasses with side shields

**Skin Protection**

**Hand Protection:** Chemical resistant gloves

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

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

**Hygiene measures:** Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat, drink or smoke.

**9. Physical and chemical properties**

**Appearance**

**Physical state:** solid  
**Form:** Paste  
**Color:** White  
**Odor:** Acetic acid.  
**Odor threshold:** No data available.  
**pH:** No data available.  
**Melting point/freezing point:** No data available.  
**Initial boiling point and boiling range:** No data available.  
**Flash Point:** ca. 72 °C (Closed Cup)  
**Evaporation rate:** No data available.  
**Flammability (solid, gas):** No data available.

**Upper/lower limit on flammability or explosive limits**

**Flammability limit - upper (%):** No data available.  
**Flammability limit - lower (%):** No data available.  
**Explosive limit - upper:** No data available.  
**Explosive limit - lower:** No data available.

**RTV 118**

<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Density:</b>	ca. 1.05 g/cm <sup>3</sup>
<b>Relative density:</b>	ca. 1.05
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble
<b>Solubility (other):</b>	Soluble in toluene
<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No decomposition if stored and applied as directed.
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Viscosity, kinematic:</b>	No data available.

**10. Stability and reactivity**

<b>Reactivity:</b>	No dangerous reaction if used as recommended.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid:</b>	Reacts with water liberating small amounts of acetic acid.
<b>Incompatible Materials:</b>	Strong Acids, Strong Bases Water.
<b>Hazardous Decomposition Products:</b>	In case of fire, gives off (emits): Carbon dioxide Acetic acid. Silicon dioxide. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

**11. Toxicological information**

**Information on likely routes of exposure**

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

**Symptoms**

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.

**RTV 118**

**Eye contact:** No data available.

**Ingestion:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** No data available.

**Specified substance(s):**

Silica LD 50 (Rat): > 15,000 mg/kg

Octamethylcyclotetrasiloxane LD 50 (Rat): > 4,800 mg/kg

Acetic acid LD 50 (Rat): 3,310 mg/kg

**Dermal**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane LD 50 (Rat): > 2,375 mg/kg

**Inhalation**

**Product:** No data available.

**Specified substance(s):**

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

Acetic acid TDLo (Rat, 4 h): 16 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**

Silica (Rabbit): No skin irritation

Octamethylcyclotetrasiloxane OECD Test Guideline 404 (Rabbit): Non irritating

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Specified substance(s):**

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

**RTV 118**

**Respiratory or Skin Sensitization**

**Product:** No data available.

**ACGIH Sensitization**

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s):**

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)

**In vivo**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane  
 Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:** No data available.

**12. Ecological information**

**Ecotoxicity**

**Acute hazards to the aquatic environment**

**Fish**

**Product:** No data available.

**Specified substance(s):**

Silica LC0 (Brachydanio rerio, 96 h): 5,000 mg/l  
 Octamethylcyclotetrasiloxane LC50 (Oncorhynchus mykiss, 96 h): > 0.022 mg/l

**RTV 118**

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 Acetic acid LC50 (Lepomis macrochirus, 96 h): 75 mg/l  
 LC0 (Leuciscus idus): 368 mg/l  
 LC100 (Leuciscus idus): 452 mg/l  
 LC50 (Leuciscus idus, 48 h): 410 mg/l  
 LC50 (Pimephales promelas, 96 h): 88 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane EC50 (Daphnia magna, 48 h): > 0.015 mg/l  
 Acetic acid LC0 (Daphnia magna): 150 mg/l  
 EC50 (Daphnia magna, 24 h): 95 mg/l

**Chronic hazards to the aquatic environment**

**Fish**

**Product:** No data available.

**Specified substance(s):**

Silica LC0 (Brachydanio rerio, 4 d): 5,000 mg/l  
 Octamethylcyclotetrasiloxane NOEC (Oncorhynchus mykiss, 93 d): >= 0.0044 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane NOEC (Daphnia magna, 21 d): > 0.015 mg/l

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane ErC50 (Selenastrum capricornutum, 96 h): > 0.022 mg/l

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane 3.7 % (29 d, 310 Ready Biodegradability - CO<sub>2</sub> in Sealed Vessels (Headspace Test)) Not readily biodegradable.  
 Acetic acid 60 % (5 d, No data available.)

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**



**RTV 118**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 12.40

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility**

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Silica No data available.

Octamethylcyclotetrasiloxane No data available.

Acetic acid No data available.

**Other adverse effects:** No data available.

**13. Disposal information**

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

**Disposal methods**

**Disposal instructions:** Can be incinerated when in compliance with local regulations. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. The generation of waste should be avoided or minimized wherever possible. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

**Contaminated Packaging:** Dispose of as unused product.

**14. Transport information**

**ADR**

Not regulated.

**IATA**

Not regulated.

**IMDG**

Not regulated.

RTV 118

**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. keep away from odour sensitive materials

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

Not applicable

**15. Regulatory information**

**Malaysia. Medical Surveillance Chemicals, Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health): Schedule 2**  
Silica

**Malaysia. Prohibited Use of Substances [Occupational Safety and Health (Prohibition of Use of Substance) Order]**  
Not Regulated

**Malaysia. Controlled Precursors Subject to Conditional Exports (Customs (Prohibition of Exports) Order 2017, Second Schedule, as amended)**  
Acetic Anhydride

**Malaysia. Controlled Precursors Subject to Conditional Imports (Customs (Prohibition of Imports) Order, Part I of Second Schedule)**  
Acetic Anhydride

**Malaysia. CWC. Chemical Weapons Convention Act 2005, (Schedules 1-3)**  
Not Regulated

**Malaysia. Ozone Depleting Substances (ODS) (Environmental Quality (Prohibition on the Use of CFC and Other Gases as Propellants and Blowing Agents) Order 1993)**  
Not Regulated

**Malaysia. Lists of Halon Management (Environmental Quality (Halon Management) Regulation 1999)**  
Not Regulated

**Malaysia. Refrigerant Hazardous Substance (Environmental Quality (Refrigerant Management) Regulation), as amended**  
Not Regulated

**Malaysia. Active Ingredients of Pesticide Product (Pesticide Act 1974, First Schedule), as amended**  
Not Regulated

**International regulations**

**Montreal protocol**  
Not applicable

**Stockholm convention**  
Not applicable

**Rotterdam convention**  
Not applicable

**RTV 118**

**Kyoto protocol**  
 Not applicable

**Inventory Status:**

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.
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.
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.
Canada DSL Inventory List:	Q (quantity restricted)	Remarks: Please contact your supplier for further information on the inventory status of this material.

**16. Other information, including date of preparation or last revision**

<b>Issue Date:</b>	2022/03/22
<b>Revision Date:</b>	No data available.No data available.
<b>Version #:</b>	1.0
<b>Source of information:</b>	No data available.
<b>Further Information:</b>	No data available.

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RTV 118

**Disclaimer:**

**Notice to reader**

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use 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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