

RTV159

# SAFETY DATA SHEET

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

**Product identifier:** RTV159

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

**Recommended use:** Not available.

**Recommended restrictions:** For industrial use only.

**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:** No signal word.

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

**Precautionary statement(s):** 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.

**RTV159**

**Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl) -, reaction products with ammonia, octamethylcyclotetrasiloxane and silica	68937-51-9	10 - <30%
Red iron oxide	1309-37-1	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**

**General information:** Get medical attention if symptoms occur.

**Description of necessary first-aid measures**

**Inhalation:** Move to fresh air. Get medical attention if any discomfort continues.

**Skin Contact:** After contact with skin, remove product mechanically. Wash area with soap and water.

**Eye contact:** Rinse the eye with water immediately. If eye irritation persists: Get medical advice/attention.

**Ingestion** Rinse mouth. Do not induce vomiting. Consult a physician for specific advice.

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

**Symptoms:** Treatment is symptomatic and supportive.

**Hazards:** No data available.

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

**Treatment:** Treatment is symptomatic and supportive.

**5. Fire-fighting measures**

**General Fire Hazards:** Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** All standard extinguishing agents are suitable.

**RTV159**

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** In case of fire, carbon monoxide and carbon dioxide may be formed. Use water spray to keep fire-exposed containers cool.

**Special protective action for fire fighters**

**Special fire fighting procedures:** Keep away from sources of ignition - No smoking. Static discharge: material can accumulate static charges which may cause an incendiary electrical discharge.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire-exposed containers cool.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Wash skin thoroughly with soap and water. Keep container tightly closed and in a well-ventilated place. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with skin and eyes.

**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.

**Notification Procedures:** Prevent runoff from entering drains, sewers, or streams. Caution: Contaminated surfaces may be slippery.

**7. Handling and storage**

**Precautions to ensure safe handling:** Acetic acid is formed during processing. Wear appropriate personal protective equipment. Product may charge electrostatically during pouring or filling. Use only in well-ventilated areas. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Keep containers tightly closed.

**Conditions for safe storage, including any incompatibilities:** Keep away from food, drink and animal feeding stuffs. Keep container tightly closed and in a well-ventilated place.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Red iron oxideDust and fume.	Time Weighted Average (TWA):	2 ppm 5 mg/m3	Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations), as amended03 2000

**RTV159**

Acetic acid	Time Weighted Average (TWA):	10 ppm 25 mg/m3	Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations), as amended 03 2000
Red iron oxide - Respirable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
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)

**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:** Eyewash bottle with clean water. Use only in well-ventilated areas. When using do not eat, drink or smoke. Wash hands after handling.

**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:** Respirator with a vapour filter (EN 141) If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

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

**9. Physical and chemical properties**

**Appearance**

**Physical state:** solid

**Form:** Paste

**Color:** Red

**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:** > 94 °C (estimated) Product does not flash below 93.3C (200F)

**RTV159**

	during test; no actual flash point >93.3 C was determined.
<b>Evaporation rate:</b>	< 1
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Density:</b>	ca. 1.1 g/cm <sup>3</sup>
<b>Relative density:</b>	ca. 1.10
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble
<b>Solubility (other):</b>	Insoluble
<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
<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>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid:</b>	Reacts with water liberating small amounts of acetic acid.
<b>Incompatible Materials:</b>	Strong Acids, Strong Bases
<b>Hazardous Decomposition Products:</b>	Carbon oxides Oxides of silicon. Acetic acid. 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**

**Inhalation:** No data available.

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**RTV159**

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Symptoms**

**Inhalation:** No data available.

**Skin Contact:** No data available.

**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):**

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

**Dermal**

**Product:** No data available.

**Inhalation**

**Product:** No data available.

**Specified substance(s):**

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

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.

**Serious Eye Damage/Eye Irritation**

**Product:** OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Slightly irritating. The health hazard evaluation is based on the toxicological properties of a similar material.

**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:**

**RTV159**

No carcinogenic components identified

**ACGIH Carcinogen List:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**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):**

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):**

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.

**RTV159**

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**

Acetic acid 60 % (5 d, No data available.)

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**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**

Silanamine, 1,1,1-trimethyl- No data available.

N-(trimethylsilyl) -, reaction products with ammonia, octamethylcyclotetrasiloxane and silica

Red iron oxide 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**



**RTV159**

**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.

**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. Protect from moisture. Keep away from food, foodstuff, acids and bases. 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**

Not Regulated

**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, Second Schedule**

Acetic Anhydride

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

Acetic Anhydride

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RTV159

**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 1999)**

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

**Kyoto protocol**

Not applicable

**RTV159**

**Inventory Status:**

Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	Q (quantity restricted)	Remarks: Please contact your supplier for further information on the inventory status of this material.
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.

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

<b>Issue Date:</b>	2020/10/06
<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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**RTV159**

**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**

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