

RTV9811

SAFETY DATA SHEET

1. Identification

Product identifier: RTV9811

Other means of identification

Synonyms: Silicone Paste Catalyst

Recommended use and restriction on use

Recommended use: Silicone catalyst mixture

Restrictions on use: For industrial use only.

Manufacturer/Importer/Distributor Information : Momentive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Contact person : commercial.services@momentive.com

Telephone : General information
+1-800-295-2392

Emergency telephone number
Supplier : CHEMTREC
1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: not applicable

Precautionary Statements not applicable

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

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* | Notes |
|---------------------------------------|------------|-------------------------|---|
| (1) QUARTZ | 14808-60-7 | 20 - <50% | # This substance has workplace exposure limit(s). |
| (1) Calcium Carbonate | 471-34-1 | 5 - <10% | # This substance has workplace exposure limit(s). |
| ALKYL TIN CARBOXYLATE (27% as Tin) | 43136-18-1 | 1 - <5% | # This substance has workplace exposure limit(s). |

* 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

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Get medical attention immediately.

Skin Contact: Wash area with soap and water. If skin irritation occurs: Get medical advice/attention.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Most important symptoms/effects, acute and delayed

Symptoms: None known.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

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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.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: All standard extinguishing agents are suitable.

Unsuitable extinguishing media: Do not use water jet.

Specific hazards arising from the chemical: In case of fire, carbon monoxide and carbon dioxide may be formed. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Move container from fire area if it can be done without risk. Cool fire-endangered containers with water.

Special protective equipment for fire-fighters: Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Curing releases vapors which may be harmful. Use only with adequate ventilation. Avoid contact with eyes. Keep out of reach of children.

Methods and material for containment and cleaning up: Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective equipment section.

7. Handling and storage

Precautions for safe handling: Use only in well-ventilated areas. Wear appropriate personal protective equipment. Sensitivity to static discharge is not expected.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a cool, well-ventilated place.

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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Type | Exposure Limit Values | Source |
|--|------|---|---|
| (1) QUARTZ - Respirable fraction. | TWA | 0.025 mg/m ³ | US. ACGIH Threshold Limit Values (03 2015) |
| (1) QUARTZ - Respirable dust. | REL | 0.05 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | TWA | 0.1 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| (1) QUARTZ - Respirable. | TWA | 2.4 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| | TWA | 0.1 mg/m ³ | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| (1) QUARTZ | PEL | 0.05 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016) |
| (1) Calcium Carbonate - Total | REL | 10 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| (1) Calcium Carbonate - Respirable. | REL | 5 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| (1) Calcium Carbonate - Total dust. | PEL | 15 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| (1) Calcium Carbonate - Respirable fraction. | PEL | 5 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| (1) Calcium Carbonate - Total dust. | TWA | 15 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| (1) Calcium Carbonate - Respirable fraction. | TWA | 5 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| ALKYL TIN CARBOXYLATE (27% as Tin) - as Sn | STEL | 0.2 mg/m ³ | US. ACGIH Threshold Limit Values (03 2015) |
| | TWA | 0.1 mg/m ³ | US. ACGIH Threshold Limit Values (03 2015) |
| | REL | 0.1 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | PEL | 0.1 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 0.1 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |

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.

Appropriate Engineering Controls

Eye wash facilities and emergency shower must be available when handling this product.

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Individual protection measures, such as personal protective equipment

| | |
|--------------------------------|--|
| General information: | Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations. |
| Eye/face protection: | Safety glasses with side shields |
| Skin Protection | |
| Hand Protection: | Rubber or plastics gloves |
| Other: | None known. |
| Respiratory Protection: | If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134). |
| 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: | Off-white |
| Odor: | Faint |
| Odor threshold: | No data available. |
| pH: | not applicable |
| Melting point/freezing point: | No data available. |
| Initial boiling point and boiling range: | > 260 °C |
| Flash Point: | > 100 °C (Closed Cup) |
| Evaporation rate: | not applicable |
| 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. |
| Heat of combustion: | No data available. |

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| | |
|---|--------------------|
| Vapor pressure: | not applicable |
| Vapor density: | No data available. |
| Density: | 1,500.00 g/cm3 |
| Relative density: | 1.50 |
| Solubility(ies) | |
| Solubility in water: | Insoluble |
| Solubility (other): | PARTIAL IN TOLUENE |
| Partition coefficient (n-octanol/water) Log Pow: | No data available. |
| Auto-ignition temperature: | No data available. |
| Decomposition temperature: | No data available. |
| SADT: | No data available. |
| Viscosity, dynamic: | No data available. |
| Viscosity, kinematic: | No data available. |
| VOC: | 126 g/l ; |

10. Stability and reactivity

| | |
|--|--|
| Reactivity: | No dangerous reaction if used as recommended. |
| Chemical Stability: | Material is stable under normal conditions. |
| Possibility of hazardous reactions: | Hazardous polymerisation does not occur. |
| Conditions to avoid: | None known. |
| Incompatible Materials: | None known. |
| Hazardous Decomposition Products: | Carbon dioxide Formaldehyde. Silicon dioxide. 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. |

11. Toxicological information

Information on likely routes of exposure

| | |
|----------------------|--------------------|
| Ingestion: | No data available. |
| Inhalation: | No data available. |
| Skin Contact: | No data available. |

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Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

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

Dermal

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

Inhalation

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

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

(1) QUARTZ Overall evaluation: 1. Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

(1) QUARTZ Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

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:

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Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: 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 in soil: No data available.

Known or predicted distribution to environmental compartments

(1) QUARTZ No data available.

(1) Calcium Carbonate No data available.

ALKYL TIN No data available.

CARBOXYLATE (27% as
Tin)

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Other adverse effects: No data available.

13. Disposal considerations

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 instructions: Disposal should be made in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of as unused product.

14. Transport information

DOT
Not regulated.

IMDG
Not regulated.

IATA
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.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
No SARA Hazards

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
|---------------------------------|---|
| (1) QUARTZ | 10000 lbs |
| (1) Calcium Carbonate | 10000 lbs |
| ALKYL TIN | 10000 lbs |
| CARBOXYLATE (27% as Tin) | |

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

(1) QUARTZ Carcinogenic.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

SILOXANES AND SILICONES, DI-ME

(1) QUARTZ

(1) Calcium Carbonate

ALKYL TIN CARBOXYLATE (27% as Tin)

1,2,3-BENZOTRIAZOLE

US. Massachusetts RTK - Substance List

Chemical Identity

(1) QUARTZ

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

(1) QUARTZ

(1) Calcium Carbonate

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US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

| | | |
|--|----------------------|--|
| Australia AICS: | y (positive listing) | Remarks: None. |
| EU EINECS List: | y (positive listing) | Remarks: The mixture contains a polymer. The monomers for this polymer have been notified. |
| Japan (ENCS) List: | y (positive listing) | Remarks: None. |
| China Inv. Existing Chemical Substances: | y (positive listing) | Remarks: None. |
| Korea Existing Chemicals Inv. (KECI): | y (positive listing) | Remarks: None. |
| Canada DSL Inventory List: | y (positive listing) | Remarks: None. |
| Canada NDSL Inventory: | n (Negative listing) | Remarks: None. |
| Philippines PICCS: | y (positive listing) | Remarks: None. |
| US TSCA Inventory: | y (positive listing) | Remarks: On TSCA Inventory |
| Taiwan Chemical Substance Inventory: | y (positive listing) | Remarks: None. |

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

HMIS Hazard ID

| | |
|----------------------------|--------------------------------|
| Health | <input type="text" value="0"/> |
| Flammability | <input type="text" value="1"/> |
| Physical Hazards | <input type="text" value="0"/> |
| PERSONAL PROTECTION | <input type="text"/> |

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 08/02/2017

Revision Date: No data available.

Version #: 2.0

Further Information: No data available.

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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.
Keep out of the reach of children.

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 safehandling, 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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