

**RTV664 011
Silicone Compound (part A)****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Manufactured By: Momentive performance material
260 Hudson River Rd
Waterford NY 12188

Revised: 04/26/2011
Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
CHEMTREC 1-800-424-9300

Chemical Family/Use: Silicone Elastomer
Formula: Mixture

HMIS

Flammability: 1 Reactivity: 0 Health: 0

NFPA

Flammability: 1 Reactivity: 0 Health: 1

2. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

CAUTION! May cause skin, eye, and respiratory tract irritation. May generate formaldehyde at temperatures greater than 150 C(300 F). Attention: Not for injection into humans.

Form: Paste**Color:** Pale yellow**Odor:** Odorless**POTENTIAL HEALTH EFFECTS****INGESTION**

None known. Not an anticipated route of exposure.

SKIN

Skin contact may cause irritation.

INHALATION

Inhalation of vapors may cause irritation of the respiratory tract.

MEDICAL CONDITIONS AGGRAVATED

None known.

SUBCHRONIC (TARGET ORGAN)

None known.

CHRONIC EFFECTS / CARCINOGENICITY

No data available.

ROUTES OF EXPOSURE

Inhalation

**RTV664 011
Silicone Compound (part A)****3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
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A. HAZARDOUS**B. NON-HAZARDOUS**

polyvinylsiloxane	68083-19-2	30 - 60 %
QUARTZ	14808-60-7	30 - 60 %
Polyalkylalkenylsiloxane	68584-83-8	10 - 30 %
Limestone	471-34-1	1 - 5 %

4. FIRST AID MEASURES**INGESTION**

Do not induce vomiting. If victim is conscious, give 1-3 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if irritation persists.

SKIN

Wash with soap and water. Get medical attention if symptoms occur.

INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

EYES

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

NOTE TO PHYSICIAN

Treatment is symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

FLASH POINT:	> 204 °C; 399 °F
METHOD:	Closed Cup
IGNITION TEMPERATURE:	Not applicable

**RTV664 011
Silicone Compound (part A)**

FLAMMABLE LIMITS IN AIR - LOWER (%): No data available.
FLAMMABLE LIMITS IN AIR - UPPER (%): No data available.

SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE
Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA
All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING PROCEDURES
Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

FURTHER INFORMATION
Use standard firefighting procedures and consider the hazards of other involved materials.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
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 BE TAKEN IN HANDLING AND STORAGE
Keep container closed. Avoid contact with eyes, skin, and clothing. Keep out of reach of children.

STORAGE
Keep container closed. Store away from heat, sources of ignition, and incompatibles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS
Eye wash facilities and emergency shower must be available when handling this product.; Showers

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

RTV664 011
Silicone Compound (part A)

(see 29CFR 1910.134).

PROTECTIVE GLOVES

Rubber gloves are recommended.

EYE AND FACE PROTECTION

Safety glasses with side shields

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

<u>Component</u>	<u>CAS RN</u>	<u>Source</u>	<u>Value</u>
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Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F:	ca.260.00 °C; 500 °F
VAPOR PRESSURE (20 C) (MM HG):	Negligible
VAPOR DENSITY (AIR=1):	1.0
FREEZING POINT:	Not applicable
PHYSICAL STATE:	Paste
Odor:	Odorless
Color:	Pale yellow
EVAPORATION RATE (BUTYL ACETATE=1):	< 1
SPECIFIC GRAVITY (WATER=1):	ca. 1.28
DENSITY:	ca. 1.28 g/cm ³
ACID / ALKALINITY (MEQ/G):	No data available.
pH:	No data available.
SOLUBILITY IN WATER (20 C):	Insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Toluene
VOLATILE ORGANIC CONTENT:	< 1.0 %(m)
VOC EXCL. H₂O & EXEMPTS (G/L):	< 7 g/l

RTV664 011
Silicone Compound (part A)

10. STABILITY AND REACTIVITY**STABILITY**

Stable

HAZARDOUS POLYMERIZATION

Hazardous polymerisation does not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon Monoxide.; Carbon dioxide; Silicon dioxide.; Formaldehyde.; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

INCOMPATIBILITY (MATERIALS TO AVOID)

None known.

CONDITIONS TO AVOID

None known.

11. TOXICOLOGICAL INFORMATION**ACUTE ORAL**

Remarks: No data available.

ACUTE DERMAL

Remarks: No data available.

ACUTE INHALATION

Remarks: No data available.

OTHER

None.

SENSITIZATION

No data available.

SKIN IRRITATION

No data available.

EYE IRRITATION

No data available.

MUTAGENICITY

No data available.

**RTV664 011
Silicone Compound (part A)**

12. ECOLOGICAL INFORMATION**ECOTOXICITY**

No data available.

DISTRIBUTION

No data available.

CHEMICAL FATE

No data available.

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHOD**

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

14. TRANSPORT INFORMATION**Further Information:**

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15. REGULATORY INFORMATION**Inventories**

Australia Inventory of Chemical Substances (AICS)	y (positive listing)
EU list of existing chemical substances	y (positive listing)
Japan Inventory of Existing & New Chemical Substances (ENCS)	y (positive listing)
China Inventory of Existing Chemical Substances	y (positive listing)
Korea Existing Chemicals Inventory (KECI)	y (positive listing)
Canada DSL Inventory	y (positive listing)
Canada NDSL Inventory	n (Negative listing)

**RTV664 011
Silicone Compound (part A)**

Philippines Inventory of Chemicals and Chemical Substances (PICCS) y (positive listing)
TSCA list y (positive listing) On TSCA Inventory
For inventories that are marked as quantity restricted or special cases, please contact Momentive.

US Regulatory Information**SARA (313) CHEMICALS**

CALIFORNIA PROPOSITION 65
108-88-3, Toluene.

Canadian Regulatory Information

WHMIS HAZARD CLASS
- Non-controlled.

Other

SCHDLE B/HTSUS: 3910.00.0000 Silicones in primary forms
ECCN: EAR99

16. OTHER INFORMATION**OTHER**

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

,C = ceiling limit NEGL = negligible
EST = estimated NF = none found
NA = not applicable UNKN = unknown
NE = none established REC = recommended
ND = none determined V = recommended by vendor
SKN = skin TS = trade secret
R = recommended MST = mist
NT = not tested STEL = short term exposure limit
ppm = parts per million ppb = parts per billion
By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2).

RTV664 011
Silicone Compound (part A)

RTV664 011
Curing Agent**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Manufactured By: Momentive performance material
260 Hudson River Rd
Waterford NY 12188

Revised: 04/26/2011
Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
CHEMTREC 1-800-424-9300

Chemical Family/Use: Silicone Rubber
Formula: Mixture

HMIS

Flammability: 2 Reactivity: 1 Health: 0

NFPA

Flammability: 2 Reactivity: 1 Health: 1

2. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

CAUTION! Combustible Product generates flammable gas on contact with acids, bases or oxidizing substances. May cause skin and eye irritation.

Form: Liquid**Color:** Dark blue**Odor:** Faint**POTENTIAL HEALTH EFFECTS****INGESTION**

None known.

SKIN

May cause skin irritation.

INHALATION

None known.

EYES

No data available.

MEDICAL CONDITIONS AGGRAVATED

None known.

SUBCHRONIC (TARGET ORGAN)

None known.

CHRONIC EFFECTS / CARCINOGENICITY

No data available.

RTV664 011
Curing Agent**ROUTES OF EXPOSURE**

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
<u>A. HAZARDOUS</u>		
<u>B. NON-HAZARDOUS</u>		
METHYLHYDROGENPOLYSILOXANE	68988-57-8	30 - 60 %
polyvinylsiloxane	68083-19-2	30 - 60 %
Polyalkylalkenylsiloxane	68584-83-8	10 - 30 %
ULTRAMARINE BLUE	57455-37-5	1 - 5 %

4. FIRST AID MEASURES**INGESTION**

Rinse mouth thoroughly. Get medical attention.

SKIN

After contact with skin, remove product mechanically. Wash area with soap and water.

INHALATION

None known.

EYES

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

NOTE TO PHYSICIAN

None known.

5. FIRE-FIGHTING MEASURES**FLASH POINT:**
METHOD:ca. 71.00 °C; 160 °F
Closed Cup

RTV664 011
Curing Agent

IGNITION TEMPERATURE: No data available.
FLAMMABLE LIMITS IN AIR - LOWER (%): Not applicable
FLAMMABLE LIMITS IN AIR - UPPER (%): Not applicable

SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE
Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA
Carbon dioxide, Foam., Water spray

SPECIAL FIRE FIGHTING PROCEDURES
Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
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 TO BE TAKEN IN HANDLING AND STORAGE
Use personal protective equipment. Avoid contact with eyes, skin, and clothing. Keep container closed when not in use to prevent contact with "acidic, basic, or oxidizing materials, and metallic catalysts" like tin soaps and noble metals (Pt, Rh, etc.)."

STORAGE
Keep container tightly closed in a cool, well-ventilated place. Store away from heat, sources of ignition, and incompatibles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

RTV664 011
Curing Agent

emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

PROTECTIVE GLOVES

Wear suitable gloves.

EYE AND FACE PROTECTION

Safety glasses with side shields

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing, gloves and eye/face protection.

Exposure Guidelines

<u>Component</u>	<u>CAS RN</u>	<u>Source</u>	<u>Value</u>
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Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F:	ca.260.00 °C; 500 °F
VAPOR PRESSURE (20 C) (MM HG):	No data available.
VAPOR DENSITY (AIR=1):	No data available.
FREEZING POINT:	No data available.
PHYSICAL STATE:	Liquid
Odor:	Faint
Color:	Dark blue
EVAPORATION RATE (BUTYL ACETATE=1):	No data available.
SPECIFIC GRAVITY (WATER=1):	ca. 1.05
DENSITY:	ca. 1.05 g/cm ³
ACID / ALKALINITY (MEQ/G):	No data available.
pH:	N/A
SOLUBILITY IN WATER (20 C):	Insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Soluble in toluene
VOC EXCL. H₂O & EXEMPTS (G/L):	< 5 g/l

**RTV664 011
Curing Agent**

10. STABILITY AND REACTIVITY**STABILITY**

Material is stable under normal conditions.

HAZARDOUS POLYMERIZATION

Hazardous polymerisation does not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Flammable hydrogen gas.; Carbon dioxide; Formaldehyde.; Silicon dioxide.; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

INCOMPATIBILITY (MATERIALS TO AVOID)

"Avoid contact with acidic, basic, or oxidizing agents, and""metallic catalysts like tin soaps and noble metals (Pt, Rh,"etc.).

CONDITIONS TO AVOID

Avoid contact with acids and oxidizing substances.

11. TOXICOLOGICAL INFORMATION**ACUTE ORAL**

Remarks: None known.

ACUTE DERMAL

Remarks: None known.

ACUTE INHALATION

Remarks: No data available.

OTHER

None.

SENSITIZATION

Test Type: Magnusson-Kligmann; Species: Guinea Pig; Result: In tests with guinea-pigs, the product did not show a sensitising effect (OECD 406; GPMT according to Magnusson-Kligman).

SKIN IRRITATION

Species: Rabbit; Result: No skin irritation

EYE IRRITATION

Species: Rabbit ; Result: No eye irritation

RTV664 011
Curing Agent

MUTAGENICITY

No data available.

12. ECOLOGICAL INFORMATION**ECOTOXICITY**

Ecotoxicological data for this product is not available.

DISTRIBUTION

No data available.

CHEMICAL FATE

No data available.

ECOTOXICITY EFFECTS**Toxicity to fish**

LC0

Species: *Leuciscus idus*

Result: 200 mg/l

Exposure time: 96 h

Toxicity to microorganisms

EC0

Species: *Pseudomonas putida*

Result: > 10,000 mg/l

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHOD**

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

14. TRANSPORT INFORMATION**Further Information:**

This product is not regarded as a dangerous good according to the national and international regulations on the transport of dangerous goods. As a result of the continuous formation of hydrogen gas, Momentive Performance Materials does not transport this material by air (IATA-C, IATA-P).

Keep away from food, foodstuff, acids and bases.

**RTV664 011
Curing Agent****15. REGULATORY INFORMATION****Inventories**

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TSCA list	y (positive listing)	On TSCA Inventory

For inventories that are marked as quantity restricted or special cases, please contact Momentive.

US Regulatory Information

SARA (311,312) HAZARD CLASS
Fire Hazard

SARA (313) CHEMICALS

CALIFORNIA PROPOSITION 65
108-88-3, Toluene.

Other

SCHDLE B/HTSUS: 3910.00.0000 Silicones in primary forms

ECCN: EAR99

16. OTHER INFORMATION**OTHER**

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RTV664 011
Curing Agent

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By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2).