



Quality System Certified to ISO 9001:2008

SAI Global File #004008

Burlington, Ontario, Canada

RTV SILICONE ADHESIVE SEALANT

1035

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: RTV Silicone Adhesive Sealant

SDS Code: 1035

Related Part # 1035-85ML

Recommended Use and Restriction on Use

Use: Sealant adhesive

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer

MG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA

MG Chemicals (Head Office)
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Surrey, British Columbia V4N 4E7
CANADA

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FAX +1-800-340-0773
E-MAIL support@mgchemicals.com
WEB www.mgchemicals.com

 +1-905-331-1396
FAX +1-905-331-2682
E-MAIL info@mgchemicals.com

E-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA or CANADA—Call CHEMTREC at **+1-800-424-9300**

For emergencies involving the transport of dangerous goods; 24/7 service
CANADA—Call CANUTEC collect at **+1-613-996-6666** or ***666** on cellular phones

RTV SILICONE ADHESIVE SEALANT**1035****Section 2: Hazard(s) Identification****Classification of Hazardous Chemical****GHS Categories**

Criteria	Category	Signal Word	Pictograms
Reproductive Toxicity	2	Warning	Health
Sensitization Skin	1	Warning	Exclamation

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Label Elements

Signal Word	WARNING
Pictograms	Hazard Statements
	H361: Suspected of damaging fertility or the unborn child
	H317: May cause an allergic skin reaction
Prevention	Precautionary Statements
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing vapors/mist
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing.

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Response	Precautionary Statements
P302 + P352	IF ON SKIN: Wash with plenty of water.
P333 + P313	IF skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
Storage	Precautionary Statements
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Not available	Not Available	none	none

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
556-67-2	octamethylcyclotetrasiloxane	1-5%
999-97-3	1,1,1,3,3,3-hexamethyldisilazane	1-5%
1185-55-3	methyltrimethoxysilane	1-5%

Section 4: First-Aid Measures

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
IF ON SKIN	P302 + P352, P362 + P364, P333 + P313
Immediate Symptoms	<i>mild irritation, redness, rash</i>
Response	Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

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IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	<i>redness, mild irritation</i>
Response	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF INHALED	P304 + P340, P308 + P313
Immediate Symptoms	<i>cough, irritation of the respiratory track</i>
Response	Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention.
IF SWALLOWED	P301 + P330 + P331, P308 + P313
Immediate Symptoms	<i>irritation</i>
Response	Rinse mouth. Do not induce vomiting. IF exposed or concerned: Get medical advice/attention.

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use extinguishing media suitable for surrounding materials.
Specific Hazards	Not flammable or combustible, but will burn if involved in a fire. Produces irritating smoke and toxic fumes in fires.
Combustion Products	Produces carbon oxides (CO, CO ₂), Silicon dioxide, nitrogen oxides (NO _x), ammonia, and formaldehyde.
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

Section 6: Accidental Release Measures

Personal Protection	See personal protection recommendations in Section 8.
Precautions for Response	Avoid breathing the fumes/vapors. Keep away from extreme heat or open flames.
Environmental Precautions	Avoid releasing to the environment.
Containment Methods	Contain with inert absorbent (such as soil, sand, vermiculite).

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Cleaning Methods Collect spill in a sealable container. Wash spill area with soap and water. ventilation, especially in low or enclosed areas.

Disposal Methods Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention Keep out of reach of children.
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

Handling Wear protective gloves/eye protection.
Wash hands thoroughly after handling.
Collect spillage.

Storage Store locked up.

Section 8: Exposure Controls/Personal Protection**Substances with Occupational Exposure Limit Values**

Contains no substances with occupational exposure limits.

Note: The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from RTECS database² and from suppliers' SDS were also consulted.

Engineering Controls

Ventilation General ventilation is adequate for normal use; keep overall exposure as low as possible.

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety goggles.
Recommendation: Ensure that glasses have side shields for lateral protection.

Skin Protection If exposure to the jet or liquid is likely, wear cold-insulating gloves to protect the skin against frostbites.

Respiratory Protection For extreme exposures, use self-contained breathing apparatus or supplied by air.

RTV SILICONE ADHESIVE SEALANT**1035****General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Solid, paste	Lower Flammability Limit	Not applicable
Appearance	Colorless	Upper Flammability Limit	Not applicable
Odor	Ammonia-like	Vapor Pressure @25 °C	<1.0 hPa [<0.75 mmHg]
Odor Threshold	Not available	Vapor Density	Not Available
pH	Not Available	Specific Gravity @21.1 °C	1.04
Freezing/Melting Point	Not Available	Solubility in Water @21.1 °C	Insoluble
Boiling Point ^{a)}	Not Available	Partition Coefficient	Not Available
Flash Point	≥110 °C [>230 °F]	Auto-ignition Temperature	Not Available
Evaporation Rate	Not Available	Decomposition Temperature	Not available
Flammability (solid, gas)	Not available	Viscosity @40 °C	>20.5 mm ² /s

Section 10: Stability and Reactivity

Reactivity	Methylpolysiloxanes may generate formaldehyde in presence of oxygen above 150 °C [300 °F].
Chemical Stability	Chemically stable at normal temperatures and pressures.
Conditions to Avoid	Flames, excessive temperatures, and incompatible substances
Incompatibilities	Not available
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

RTV SILICONE ADHESIVE SEALANT**1035****Section 11: Toxicological Information****Summary of Effects and Symptoms by Routes of Exposure**

Eyes	May cause redness and mild eye irritation.
Skin	May cause mild skin irritation, redness and rash.
Inhalation	May cause cough and irritation of the respiratory track.
Ingestion	It may cause irritation. (Also see inhalation symptoms.)
Chronic	Prolonged and repeated exposure may lead to skin sensitization.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
octamethylcyclotetrasiloxane	>4 800 mg/kg Rat	1 770 mg/kg Rat	36 mg/L Rat 4 h
1,1,1,3,3,3-hexamethyldisilazane	850 mg/kg Rat	547 mg/kg Rat	8 700 mg/m ³ Rat 4 h
methyltrimethoxysilane	11 685 mg/kg Rat	10 mL/kg Rabbit	7 605 ppm Rat 6 h

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier (M)SDS were also consulted.

Other Toxicological Effects

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Sensitization (allergic reactions)	Methyltrimethoxysilane (CAS# 1185-55-3) may cause skin sensitization based on animal study results.
Carcinogenicity (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met. No mutagenic effects observed in four tests.
Reproductive Toxicity (risk to sex functions)	Octamethylcyclotetrasiloxane (CAS# 556-67-2) tested positive for effect on reproduction in rat studies.

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RTV SILICONE ADHESIVE SEALANT**1035****Teratogenicity**

(risk of fetus malformation)

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazardBased on available data, the classification criteria are not met. The mixture does not contain Class 1 aspiration toxicant and its viscosity is $>20.5 \text{ mm}^2/\text{s}$ at 40°C .**Section 12: Ecological Information**

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

In Europe, octamethylcyclotetrasiloxane (CAS# 556-67-2) is classified as chronic category 4 marine pollutant. Hexamethyldisilazane (CAS# 999-97-3) is classified as a category 3. The remaining ingredients are not classifiable due to lack of data, but they are believed to be of low ecotoxicity.

Acute Ecotoxicity

Based on available data, the classification criteria are not met.

Chronic Ecotoxicity

Based on available data, the classification criteria are not met.

Persistence and Biodegradability

Not classifiable due to inconclusive data

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Effects

Not available

RTV SILICONE ADHESIVE SEALANT**1035****Section 13: Disposal Information**

Dispose of contents in accordance with all local, regional, national, and international regulations.

Section 14: Transport Information**Ground**

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations) and **US DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Not Regulated

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Not Regulated

Sea

Refer to IMDG Dangerous Goods Regulations.

Not Regulated

Note: **Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.**

Section 15: Regulatory Information**Canada****Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

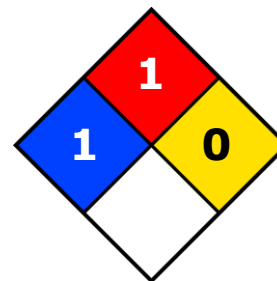
All hazardous ingredients are listed on the DSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

RTV SILICONE ADHESIVE SEALANT**1035****USA****Other Classifications****HMIS® RATING**

HEALTH:	* 1
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product does not contain substances which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, USA).

This product does not contain any of the listed substances.

Europe**RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

RTV SILICONE ADHESIVE SEALANT**1035****Section 16: Other Information****SDS Prepared by** Michel Hachey**Date of Revision** 28 March 2018**Supersedes** 08 March 2018**Reason for Changes:** Updated format.**Reference**

1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
ECHA	European Chemicals Agency
EU	European Union
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

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Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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