RTV Silicones by MOMENTIVE performance materials

1-Part Adhesive Sealant 1035

RoHS COMPLIANT

Primary Characteristics
- Translucent Paste
- **Excellent chemical resistance**
- Non-corrosive
- High strength
- Marine application
- Modified alkoxy (neutral) cure
- Primerless adhesion
- UL HB Recognition
- UL File No. E36952

Use for:
- Assembly applications requiring high productivity

A spreadable, non-corrosive, translucent paste. Excellent for the sealing and bonding of electronic components onto printed circuit boards and protecting copper connections on electronic parts assemblies. Excellent as a weather proofing sealant where power cords enter motors. Use as a gasket for leak resistant sealing and insulating.

Retains elastomeric properties for long periods at temperatures from -60°C to 204° C (-75°F to 399 °F). Recommended for marine applications.

Available Sizes

Catalog Number	Sizes Available	Description	Case Qty
1035-85ML	85 mL (3 oz)	Tube	6

Specifications

Use	Adhesive Sealant
	Marine Application
Special Features	High strength, non-corrosive
Cross Reference	RTV 5818, RTV5812, RTV5813
Uncured Properties	
Consistency	Paste
Color	Translucent
Specific Gravity	1.04
Tack Free Time	15 min
Cure Through Time	12 - 24 hours
Useful Temp. Range	-60°C to 204°C (-75°F to 399 °F)
Cured Properties - MECHANICAL	
Hardness	21 (Shore A)
Tensile Strength	1.896 MPa (275 psi)
Elongation	500%
Tear Strength	7.1 kg/cm (40 lb/in)
Peel Strength	8 kg/cm (47 lb/in)
Cured Properties - ELECTRICAL	

Volume Resistivity	2 x 10^{15} ohm · cm
Dielectric Strength	16.8 kV/mm
	425 V/mil
Dielectric Constant	2.8 @ 100 Hz
Cured Properties - THERMAL	
Thermal Conductivity	0.06 W/m · °K
Brittle Point	-60°C (-75°F)
Thermal Expansion	3.0 x 10^{-4} mm/mm/°C
Other	
Viscosity (@ 25°C)	480 g/min

Material Safety Data Sheet

Section 1: Product Identification

MSDS Code: 1035 **Name: RTV Silicone Adhesive Sealant**

Related Part Numbers:

Use: For use as a non-corrosive general purpose sealant and adhesive.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
68037-58-1	Methoxy / St Polydimethylsiloxane	60 - 80	n/e	n/e	n/e
68583-49-3	Tetramer Treated Silica	10 - 30	10mg/m^3	15mg/m^3	n/e
63148-62-9	Dimethyl polysiloxane	10 - 30	n/e	n/e	n/e

Section 3: Hazards Identification

WHMIS Codes: B3, D2B

NFPA Ratings: Health 2 Flammability 2 Reactivity 0

HMIS Ratings: Health 2 Flammability 2 Reactivity 0

Eyes: Causes severe eye irritation.

Skin: Uncured product will irritate lips, gums, and tongue. May cause mild skin irritation.

Inhalation: Causes mild respiratory irritation in uncured state. Releases methanol (TLV 200ppm) during application and curing.

Ingestion: May be harmful if swallowed

Chronic: No effects known..

Section 4: First Aid Measure

Eyes: Remove contact lenses. Flush with water or saline for 20 minutes. Get medical aid if symptoms persist.

Skin: To remove from skin, remove completely with a dry cloth or paper towel, before washing with sufficient quantities of detergent and water.

Inhalation: Move person to fresh air.

Ingestion: Do not induce vomiting. If conscious, give 1-2 glasses of water or milk. Get medical aid.

Section 5: Fire Fighting Measures

Autoignition Temperature: 450°C / 842°F **Flash Point:** 90°C / 194°F **LEL / UEL:** n/a

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

General Information: May generate formaldehyde at temperatures over 150°C.

Section 6: Accidental Release Measures

Spill Procedure: Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water.

Section 7: Handling and Storage

Handling: Remove contact lenses before using. Do not handle contact lenses again until all sealant has been cleaned from fingertips, nails, and cuticles. Residue may remain on fingers for several days and transfer to lenses and cause severe eye irritation. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.

Storage: Keep away from sources of ignition. Store in a cool, dry, well ventilated area, away from incompatible substances.

Section 8: Exposure Controls

Routes of entry: Eyes, ingestion, inhalation, and skin.

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protection: Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Paste	**Odor:**	alcohol	**Solubility:**	insoluble	**Evaporation Rate:**	< 1 (ether = 1)		
Boiling Point:	n/e	**Specific Gravity:**	1.04	**Vapor Pressure:**	n/a	**Vapor Density:**	n/a	**pH:**	n/a

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: None known

Incompatibilities: None known

Polymerization: Will not occur.

Decomposition: Carbon dioxide, and carbon monoxide, silicone dioxide, methanol, formaldehyde, nitrogen oxide, ammonia, tin fumes.

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) No

Carcinogenicity: (risk of cancer) The ingredients of this product are not classified as being carcinogenic by ACGIH (American Conference of Governmental industrial Hygienists) or IARC (International Agency for Research on Cancer), not regulated as carcinogens by OSHA (Occupational Safety and Health Administration), and not listed as carcinogens by NTP (National Toxicology Program)

Teratogenicity: (risk of malformation in an unborn fetus) No

Reproductive Toxicity: (risk of sterility) No

Mutangenicity: (risk of heritable genetic effects) No

Lethal Exposure Concentrations: **Ingestion (LD50):** n/e **Inhalation (LC50):** n/e **Skin (LD50):** n/e

Section 12: Ecological Information

General Information: Avoid runoff into storms and sewers that lead into waterways. Water runoff can cause environmental damage.

Environmental Impact Data: (percentage by weight)

CFC: 0 **HFC:** 0 **Cl.Solv.:** 0 **VOC:** 0 **HCFC:** 0 **ODP:** 0

Section 13: Disposal Information

General Information: Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.

Section 14: Transportation Information

Ground:

non-regulated

Air:

non-regulated

Sea:

non-regulated

Section 15: Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

None of the chemicals in this product have a reportable quantity.

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

This product does not contain any chemicals 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.

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depletors.

This product does not contain any class 2 ozone depletors.

This product does not contain any chemicals listed as hazardous air pollutants.

California Proposition 65 (Chemicals know to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product does not contain any chemicals listed.

Health Canada

Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.

Environment Canada

Chemicals in this product are listed on the Domestic Substances List in the Canadian Environmental Protection