

RTV AA-5188 Electronic RTV Silicone (Clear)

Prepared in accordance with the UN Globally Harmonized System (GHS)



Version 1.0

Revision date 28.10.2026

Last issue 2026/10

First issue 2025/10

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AT A GLANCE

GHS CLASSIFICATION
Not classifiedSIGNAL WORD
NoneTRANSPORT
Not regulatedKEY PRECAUTION
Use with ventilation: releases methanol while curing

AceAdhesive encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

01 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product name : RTV AA-5188 Electronic RTV Silicone (Clear)
Grade : RTV AA-5188

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Electrical industry and electronics. Adhesive and sealant.
Uses advised against : Not intended for consumer use.

1.3 Details of the supplier of the safety data sheet

Company : ACE ADHESIVES (AceAdhesive)
Address : GF-7, Design Arch Society Commercial Block,
Ground Floor, Block H, UPSIDC Site C, Surajpur,
Greater Noida, Uttar Pradesh 201306, India
Customer Information Number : +91 91459 90997
E-mail address : admin@aceadhesive.com
Website : www.aceadhesive.com

1.4 Emergency telephone number

Emergency Contact : +91 91459 90997 (Monday to Saturday, 10:00 to 19:00 IST)

02 HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

2.2 Label elements

Hazard pictograms : None
Signal word : None
Hazard statements : None
Precautionary statements : None

2.3 Other hazards

Octamethylcyclotetrasiloxane (D4) meets the criteria for PBT and vPvB. Decamethylcyclopentasiloxane (D5) and dodecamethylcyclohexasiloxane (D6) meet the criteria for vPvB.
This product contains no endocrine-disrupting substances at levels of 0.1% or higher.

03 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Silicone elastomer

3.2 Mixtures

This product is a mixture.

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CAS-No. / EC-No.	Concentration	Component	Classification (GHS)
68909-20-6 272-697-1	>= 19.0 - <= 29.0 %	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	STOT RE 2; H373 (Lungs)
1185-55-3 214-685-0	>= 5.0 - <= 8.0 %	Methyltrimethoxysilane	Flam. Liq. 2; H225
556-67-2 209-136-7	>= 0.14 - <= 0.25 %	Octamethylcyclotetrasiloxane (D4)	Flam. Liq. 3; H226 Repr. 2; H361f Aquatic Chronic 1; H410 (M-factor 10)
540-97-6 208-762-8	>= 0.28 - <= 0.43 %	Dodecamethylcyclohexasiloxane (D6)	Not classified
541-02-6 208-764-9	>= 0.12 - <= 0.27 %	Decamethylcyclopentasiloxane (D5)	Not classified

For the full text of the H-Statements mentioned in this Section, see Section 16.

04 FIRST AID MEASURES**4.1 Description of first aid measures**

General advice	: First aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Inhalation	: Move person to fresh air; if effects occur, consult a physician.
Skin contact	: Wash off with plenty of water.
Eye contact	: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
Ingestion	: No emergency medical treatment necessary.

4.2 Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicological information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
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05 FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media	: Water spray Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical
Unsuitable extinguishing media	: None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	: Carbon oxides Silicon oxides Formaldehyde
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Unusual Fire and Explosion Hazards : Exposure to combustion products may be a hazard to health.

5.3 Advice for firefighters

Fire Fighting Procedures : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from the fire area if it is safe to do so. Evacuate the area. Collect contaminated fire-extinguishing water separately; it must not be discharged into drains.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

06 ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Follow safe handling advice and personal protective equipment recommendations.

6.2 Environmental precautions

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Wipe up or scrape up and contain for salvage or disposal. For large spills, provide dyking or other appropriate containment to keep material from spreading. Clean up remaining material with a suitable absorbent. Spilled material can make surfaces slippery. Local or national regulations may apply to releases and disposal of this material; see Sections 13 and 15.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

07 HANDLING AND STORAGE**7.1 Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment. Use only with adequate ventilation. The product releases small amounts of methanol while curing.

7.2 Conditions for safe storage, including any incompatibilities

Keep in properly labelled containers. Keep container tightly closed in a dry, cool place away from direct sunlight. Protect from humidity until use.

Do not store with the following product types : Strong oxidizing agents

Unsuitable materials for containers : None known.

7.3 Specific end use(s)

See the technical data sheet (TDS) on this product for further information.

08 EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value/Notation
Octamethylcyclotetrasiloxane (D4)	US WEEL	TWA	10 ppm
Decamethylcyclopentasiloxane (D5)	US WEEL	TWA	10 ppm
Methanol *	ACGIH	TWA	200 ppm (Skin)
	ACGIH	STEL	250 ppm (Skin)

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* Methanol may be formed during handling or processing (curing).

8.2 Exposure controls

Engineering controls	: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.
Individual protection measures	
Eye/face protection	: Use safety glasses (with side shields).
Hand protection	: Use chemical-resistant gloves classified under standard EN 374, e.g. nitrile rubber, neoprene or butyl rubber, for prolonged or frequently repeated contact.
Other protection	: Wear clean, body-covering clothing.
Respiratory protection	: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects are experienced. Use an approved air-purifying respirator with an organic vapour cartridge and particulate pre-filter (type AP2, EN 14387).

Environmental exposure controls

See Section 7: Handling and Storage and Section 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

09 PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties****Appearance**

Physical state	: Paste
Color	: Clear
Odor	: Slight
Odor Threshold	: No data available
pH	: Not applicable
Melting point/range	: Not applicable
Freezing point	: Not applicable
Boiling point (760 mmHg)	: Not applicable
Flash point	: Not applicable
Evaporation Rate (Butyl Acetate = 1)	: Not applicable
Flammability (solid, gas)	: Not classified as a flammability hazard
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapor Pressure	: No data available
Relative Vapor Density (air = 1)	: No data available
Relative Density (water = 1)	: 0.90 – 0.95
Water solubility	: Insoluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Dynamic Viscosity	: Non-sag paste
Kinematic Viscosity	: No data available

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Explosive properties : Not explosive
 Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Thermal conductivity : 0.40 – 0.60 W/m·K
 Molecular weight : No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10 STABILITY AND REACTIVITY

10.1 Reactivity : Not classified as a reactivity hazard.
10.2 Chemical stability : Stable under normal conditions.
10.3 Possibility of hazardous reactions : Can react with strong oxidizing agents. When heated to temperatures above 180 °C (356 °F) in the presence of air, trace quantities of formaldehyde may be released.
10.4 Conditions to avoid : None known.
10.5 Incompatible materials : Oxidizing agents
10.6 Hazardous decomposition products : Contact with water or humid air: Methanol.
 Thermal decomposition: Formaldehyde.

11 TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

11.1 Information on toxicological effects

Acute oral toxicity : As product: The oral LD50 has not been determined.
 Acute dermal toxicity : As product: The dermal LD50 has not been determined.
 Acute inhalation toxicity : As product: The LC50 has not been determined.
 Skin corrosion/irritation : Not classified based on available information.
 Serious eye damage/eye irritation : Not classified based on available information.
 Sensitization : Not classified based on available information.
 Specific Target Organ Systemic Toxicity (Single Exposure) : Not classified based on available information.
 Specific Target Organ Systemic Toxicity (Repeated Exposure) : Not classified based on available information. The treated silica component is classified STOT RE 2 (lungs) for inhalation of dust; no dust is generated from the paste as supplied.
 Carcinogenicity : Not classified based on available information.
 Reproductive toxicity : Not classified based on available information. Contains octamethylcyclotetrasiloxane (D4), classified Repr. 2 (H361f), below the concentration that classifies the mixture.
 Mutagenicity : Not classified based on available information.
 Aspiration Hazard : Not classified based on available information.
 Components influencing toxicology : Methyltrimethoxysilane: this substance may hydrolyse to release methanol.

12 ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

12.1 Toxicity : Product test data not available.
12.2 Persistence and degradability : Product test data not available.
12.3 Bioaccumulative potential : Product test data not available.
12.4 Mobility in soil : Product test data not available.

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- 12.5 Results of PBT and vPvB assessment** : Octamethylcyclotetrasiloxane (D4) meets the current criteria for PBT and vPvB. Decamethylcyclopentasiloxane (D5) and dodecamethylcyclohexasiloxane (D6) meet the current criteria for vPvB.
- 12.6 Other adverse effects** : Product test data not available.

13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with all national, state and local laws and regulations. In India, dispose of waste through a facility authorised by the State Pollution Control Board. Fully cured material can be disposed of as non-hazardous industrial waste where permitted.

- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14 TRANSPORT INFORMATION**Classification for ROAD and Rail transport (India / ADR/RID)**

- 14.1 UN number** : Not applicable
- 14.2 UN proper shipping name** : Not regulated for transport
- 14.3 Transport hazard class(es)** : Not applicable
- 14.4 Packing group** : Not applicable
- 14.5 Environmental hazards** : Not considered environmentally hazardous based on available data.
- 14.6 Special precautions for user** : No data available.

Classification for SEA transport (IMO-IMDG)

- 14.1 UN number** : Not applicable
- 14.2 UN proper shipping name** : Not regulated for transport
- 14.3 Transport hazard class(es)** : Not applicable
- 14.4 Packing group** : Not applicable
- 14.5 Environmental hazards** : Not considered as marine pollutant based on available data.
- 14.6 Special precautions for user** : No data available.
- 14.7 Transport in bulk according to IMO instruments** : Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO)

- 14.1 UN number** : Not applicable
- 14.2 UN proper shipping name** : Not regulated for transport
- 14.3 Transport hazard class(es)** : Not applicable
- 14.4 Packing group** : Not applicable
- 14.5 Environmental hazards** : Not applicable
- 14.6 Special precautions for user** : No data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organisation to follow all applicable laws, regulations and rules relating to the transportation of the material.

15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- GHS classification : Not a hazardous substance or mixture.
- India : Not classified as hazardous; no specific provisions apply.

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EU RoHS Directive 2011/65/EU, as amended by (EU) 2015/863	: Compliant.
EU REACH - Candidate List of Substances of Very High Concern	: Octamethylcyclotetrasiloxane (D4), 556-67-2; Decamethylcyclopentasiloxane (D5), 541-02-6; Dodecamethylcyclohexasiloxane (D6), 540-97-6.
EU REACH Annex XVII, entry 70	: D4, D5 and D6 are restricted at 0.1% or more in mixtures; residues from silicone polymers up to 1% are permitted for use in adhesion, sealing, gluing and casting.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

16 OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H361f	: Suspected of damaging fertility.
H373	: May cause damage to organs through prolonged or repeated exposure.
H410	: Very toxic to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures

This product is not classified as hazardous according to GHS criteria.

Revision

Identification Number	: ACE-SDS-R5188
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Legend

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
US WEEL	: USA. Workplace Environmental Exposure Levels (WEEL)
TWA / STEL	: 8-hour time weighted average / Short-term exposure limit
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
PBT / vPvB	: Persistent, Bioaccumulative and Toxic substance / Very Persistent and Very Bioaccumulative substance
ADR / RID	: European agreements on the international carriage of dangerous goods by road / rail
IMDG / IATA	: International Maritime Dangerous Goods Code / International Air Transport Association
TDS	: Technical Data Sheet

Information Source and References

This SDS is prepared by AceAdhesive Product Regulatory and Quality from information supplied by internal references within the company and from information on the raw materials used.

AceAdhesive urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that its activities comply with all national, state and local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as

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