

**MATERIAL SAFETY DATA SHEET – 73-20 RTV Adhesive/Sealant**

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Date Prepared: 10/07/08
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Section 1 – Product Identification

Name:	73-20 RTV Adhesive/Sealant
Generic Description:	Silicone Elastomer
Physical Form:	Physical Form
Color:	White, aluminum, clear
Odor:	Acetic acid order
NFPA Profile:	Health 1, Flammability 1, Reactivity 0

Section 2 – OSHA Hazardous Ingredients

<u>Components</u>	<u>Wght./%</u>	<u>Exposure Limits</u>
Methyltriacetoxysilane	2	* See comments.
Silica, amorphous	11	OSHA PEL: TWA 15 mg/m ³ respirable fraction. ACGIH TLV; TW A 10 mg/m ³ total dust.
Ethyltriacetoxysilane	2	* See comments.

*Comments: Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposure within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Section 3 – Effects of Exposure**Acute effects:**

Eye:	Direct contact irritates moderately with redness and swelling.
Skin:	A single short exposure (less than 24 hours) may irritate. Repeated, prolonged contact (24 to 48 hours) may irritate moderately.
Inhalation:	Vapor overexposure may irritate eyes, nose and throat.
Oral:	Small amounts transferred to the mouth by fingers during use, etc. should not injure. Swallowing large amounts may cause digestive discomfort.

Repeated Exposure Effects

Skin:	None Known.
Inhalation:	None Known.
Oral:	None Known.

Special Hazards

Carcinogens:	None Known.
Teratogens:	None Known.
Mutagens:	None Known.
Reproductive Toxins:	None Known.
Sensitizers:	None Known.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar composition component data and/or expert review of the product.



MATERIAL SAFETY DATA SHEET – 73-20 RTV Adhesive/Sealant

Section 4 – First Aid Measures

Eye: Immediately flush with water for 15 minutes; get medical attention.
Skin: Remove from skin and wash thoroughly with soap and water or waterless soap. Get medical attention if irritation or other ill effects develop or persist.
Inhalation: Move to an area with fresh air.
Oral: No first aid should be needed.

Section 5 – Fire Fighting Measures

Flash Point (Closed Cup): 178.00° F (81.11° C)
Autoignition Temperature: Not determined.
Flammability Limits in Air: Not determined.
Extinguishing Media: Carbon dioxide (CO₂), water, water fog (or spray), dry chemical or foam.
Unsuitable Extinguishing: None
Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. If large amount of this material is involved, the area should be evacuated.
Unusual Fire Hazards: None.
Hazardous Decomposition: Thermal breakdown of this product during fires, or due to very high heat conditions, may evolve the following hazardous decomposition products:

Silicon dioxide, carbon oxides and traces of incompletely burned carbon compounds and formaldehyde.

Section 6 – Accidental Release Measures

Containment/Cleanup: Disposal of collected product, residues and cleanup materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Scrape up and contain for salvage or disposal. Observe all personal protection equipment recommendations described in Section 5 and 8. Local, state and federal reporting requirements may apply to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15.

Section 7 – Handling and Storage

Handling: No special precautions.
Storage: Keep container closed and stored away from water or moisture.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls

Local exhaust: Recommended.



MATERIAL SAFETY DATA SHEET – 73-20 RTV Adhesive/Sealant

General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection – safety glasses as a minimum.

Skin: Washing at mealtime and end of exposure.

Suitable gloves: No special protection needed.

Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data shows exposure to be within the recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: Organic vapor type.

Personal Protection Equipment for Spills

Eye: Use proper protection – safety glasses as a minimum.

Skin: Washing at mealtimes and at the end of exposure.

Inhalation/Suitable Respirator: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data shows exposure to be within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Precautionary Measures: Avoid eye contact. Avoid breathing vapor. Keep container closed. Use reasonable care.

Comments: Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guideline (see Section 2) or use respirator protection.

Note: These precautions are for room temperature handling; use at elevated temperatures may require added protection.

Section 9 – Physical and Chemical Properties

Physical form: Paste.
Color: White, aluminum or clear.
Odor: Acetic acid odor.
Specific Gravity @ 25° C: 1.04
Viscosity: Not applicable.
Freeze/melt point: Not determined.
Boiling point: Not applicable.
Vapor pressure: Not applicable.
Vapor density: Not applicable.
Solubility in water: None.
ph: Not applicable.
Volatile content: 32 gr / ltr

Section 10 – Stability and Reactivity

Chemical stability: Stable.

**MATERIAL SAFETY DATA SHEET – 73-20 RTV Adhesive/Sealant**

Hazardous Polymerization: Hazardous polymerization will not occur.
 Conditions to avoid: None.
 Materials to avoid: Oxidizing material can cause a reaction. Water, moisture or humid air – hazardous vapors form as described in Section 2.

Section 11 – Toxicological Information

Toxicological Information: No Known Applicable Information

Section 12 – Ecological Information

Environmental Fate & Distribution: Complete information not available.
 Environmental Effects: Complete information is not yet available.
 Fate & Effects in Waste Water
 Treatment Plants: Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	<1and<=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <=2000	>2000

This table is adapted from “Environmental Toxicology and Risk Assessment”. ASTM STP 1179, p. 34, 1993
 This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

Section 13 – Disposal Considerations

RCRA HAZARD CLASS (40 CFR 261)

SECTION 13 NOTES:

When a decision is made to discard this material, as received, is it classified as a hazardous waste? NO

Check State and Local laws for additional regulatory requirements regarding disposal.

Section 14 – Transport Information

DOT Road Shipment Information (49 CFR 172.101): Not subject to DOT.
 Ocean Shipment (IMDG): Not subject to IMDG code.
 Air Shipment (IATA): Not subject to IATA regulations.

Section 15 – Regulatory Information

**MATERIAL SAFETY DATA SHEET – 73-20 RTV Adhesive/Sealant**

Contents of this MSDS comply with the OSHA Hazard Communications Standard 29CFR 1910, 1200 TSCA Status. All chemical substances found in this product comply with the toxic Substances Control Act inventory reporting requirements.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances:	None.
Section 304 CERCLA Hazardous Substances:	None.
Section 312 Hazard Class:	
Acute:	Yes.
Chronic:	No.
Fire:	No.
Pressure:	No.
Reactive:	No.
Section 313 Toxic Chemicals:	None present or none present in regulated quantities.

Supplemental State Compliance Information**California**

This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being know to cause cancer: None known.

This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being know to cause birth defects or other reproductive harm: None known.

Weight %	Component
Massachusetts	
11%	Silica, amorphous
New Jersey	
81%	Dimethyl siloxane, hydroxyl-terminated
2%	Methyltriacetoxysilane
2%	Ethyltriacetoxysilane
1%	Polydimethylsiloxane
11%	Silica, amorphous fumed; #1655
Pennsylvania	
81%	Dimethyl siloxane, hydroxyl – terminated
11%	Silica, amorphous

Section 16 – Disclaimer

The information presented in this MSDS represents the most accurate known presentation of this product. However, due to the many and diverse variables in its end use, it is the end users' responsibility to determine the suitability of this information for the adoption of the safety precautions as may be necessary.