

**MATERIAL SAFETY DATA SHEET  
RTV SILICONE PRODUCTS**

6/22/05

**PRODUCTS COVERED:** AA-G, CS-SA, CS-SB, CS-SBR, CS-SC, CS-SW, TS-B, TS-C

**SECTION I-MANUFACTURER**

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**SECTION II-PRODUCTS**

| <u>Stock Number</u> | <u>Product Name on Label-Color</u> | <u>Hazardous Ingredients in Products*</u> | <u>HMS RATING</u> |          |          | <u>Appearance and Odor</u>  | <u>Solubility</u>     |                          |
|---------------------|------------------------------------|---|-------------------|----------|----------|-----------------------------|-----------------------|--------------------------|
|                     |                                    |   | <u>H</u>          | <u>F</u> | <u>R</u> |                             | <u>Wt. % in Water</u> | <u>Volatile Volume %</u> |
| AA-G*               | Black Low Volatile AUTO GASKET     | 1,2,4,5,7,8,10                            | 3                 | 1        | 1        | Black Paste, Acetic Acid    | <0.1                  | 3-5                      |
| CS-SA               | SILICONE SEALANT-ALUMINUM          | 1,5,6,8                                   | 3                 | 1        | 1        | Aluminum Paste, Acetic Acid | <0.1                  | 3-5                      |
| CS-SB               | SILICONE SEALANT-BLACK             | 1,5,6,8                                   | 3                 | 1        | 1        | Black Paste, Acetic Acid    | <0.1                  | 3-5                      |
| CS-SBR              | SILICONE SEALANT-BRONZE            | 1,5,6,8                                   | 3                 | 1        | 1        | Bronze Paste, Acetic Acid   | <0.1                  | 3-5                      |
| CS-SC               | SILICONE SEALANT-CLEAR             | 1,5,6,8                                   | 3                 | 1        | 1        | Clear Paste, Acetic Acid    | <0.1                  | 3-5                      |
| CS-SW               | SILICONE SEALANT-WHITE             | 1,5,6,8                                   | 3                 | 1        | 1        | White Paste, Acetic Acid    | <0.1                  | 3-5                      |
| TS-B                | SILICONE SEALANT-BLACK             | 2,5,8                                     | 3                 | 1        | 1        | Black Paste, Acetic Acid    | <0.1                  | 3-5                      |
| TS-C                | SILICONE SEALANT-CLEAR             | 2,5,8                                     | 3                 | 1        | 1        | Clear Paste, Acetic Acid    | <0.1                  | 3-5                      |

\*AA-G has the outer container pressurized with flammable gas. The gas **IS NOT** dispensed with the sealant.

**Do not** remove the rubber plug from the bottom of the can.

**SECTION III-HAZARDOUS INGREDIENTS**

| <u>Ingredients</u>              | <u>CAS Number</u> | <u>Exposure Limits** in ppm (parts per million)</u> | <u>Flash Point</u> |           | <u>Vapor Pres- sure (mm Hg at 20°C)</u> | <u>Evap. Rate n-Butyl Acetate=1</u> | <u>Boiling Point</u> |           | <u>Flammable Limits in %</u> |              | <u>Autoigni- tion Pt.</u> |           |
|---------------------------------|-------------------|---|--------------------|-----------|---|-------------------------------------|----------------------|-----------|------------------------------|--------------|---------------------------|-----------|
|                                 |                   |   | <u>°F</u>          | <u>°C</u> |   |                                     | <u>°F</u>            | <u>°C</u> | <u>Low'r</u>                 | <u>Upp'r</u> | <u>°F</u>                 | <u>°C</u> |
| 1. Acetic Acid***               | 64-19-7           | 10 ppm A, O   | 102                | 39        | 16 (25°C)                               | 1.6                                 | 244                  | 118       | 4.0                          | 19.0         | 516                       | 961       |
| 2. Amorphous Silica             | 7631-86-9         | 10 mg/m <sup>3</sup> dust A,O                       | -NA-               |           | NA                                      | NA                                  | -NA-                 |           | -NA-                         |              | -NA-                      |           |
| 3. Di-t-Butoxy- diacetoxysilane | 13170-23-5        | Unknown   | Unknown            |           | Unknown                                 | <1                                  | 216                  | 102       | -NA-                         |              | -NA-                      |           |
| 4. Dimethylsiloxane             | 70131-67-8        | NE  | >500               | >260      | <1                                      | NA                                  | >300                 | >149      | -NA-                         |              | -NA-                      |           |
| 5. Ethyltriaceoxy- silane       | 17689-77-9        | Unknown   | 46                 | 8         | <5                                      | <1                                  | >300                 | >149      | -NA-                         |              | -NA-                      |           |
| 6. Fumed Silica                 | 7631-86-9         | 10 mg/m <sup>3</sup> dust A,O                       | -NA-               |           | NA                                      | NA                                  | -NA-                 |           | -NA-                         |              | -NA-                      |           |
| 7. Methyltriaceoxy- silane      | 4253-34-3         | Unknown   | Unknown            |           | <1                                      | <1                                  | 248                  | 120       | -NA-                         |              | -NA-                      |           |
| 8. Polydimethyl- siloxane       | 63148-60-7        | NE  | >500               | >260      | <1                                      | NA                                  | >300                 | >149      | -NA-                         |              | -NA-                      |           |
| 9. Polydimethyl- siloxane       | 63148-62-9        | NE  | >500               | >260      | <1                                      | NA                                  | >300                 | >149      | -NA-                         |              | -NA-                      |           |
| 10. Phenylmethyl- siloxane      | 80801-30-5        | NE  | >500               | >260      | <1                                      | NA                                  | >300                 | >149      | -NA-                         |              | -NA-                      |           |

\*\*A means ACGIH TLV, O means OSHA PEL. Other abbreviations: >means greater than, <means less than, NA means not applicable, NE means Not Established. \*\*\*Acetic Acid is not an ingredient in any of the products but is given off when they cure upon exposure to the humidity in air. Acetic Acid is severely irritating to the eyes and may cause permanent damage if not flushed out immediately.

**SECTION IV-PHYSICAL DATA**

**Evaporation Rate:** See section III **Vapor Density:** Heavier than air **Solubility in Water (Wt %):** See section II **Volatile Volume %:** See section II **Approximate Boiling Point:** See section III **Product Density:** 1.01-1.05 **Appearance and Odor:** See section II

**SECTION V-FIRE AND EXPLOSION DATA**

**Flash Point of Curing Products (PMCC Method):** 183°F (84°C) **Flammable Limits:** See section III **Autoignition Temperature:** See section III **Extinguishing Media:** Carbon dioxide, dry chemical, foam, water fog **Fire Fighting Procedures:** Full protective equipment, including self-contained breathing apparatus and protective clothing should be worn. **Unusual Fire and Explosion Hazards:** None

**SECTION VI-HEALTH HAZARD DATA**

**PRIMARY ROUTES OF EXPOSURE:** Inhalation, skin contact, eye contact and Ingestion (ingestion is very unlikely.) **SIGNS AND SYMPTOMS OF EXPOSURE:** **INHALATION:** **Acute Exposure:** Inhalation of concentrated acetic acid vapors may cause serious damage to the lining of the nose, throat, and lungs. Breathing difficulties may occur. Bronchopneumonia and pulmonary edema may develop. **Chronic Exposure:** Inflammation of the nose, throat, and bronchial tubes **SKIN CONTACT:** **Acute Exposure:** Redness, dermatitis or skin burns. **Chronic Exposure:** Irritation, thickening and dark coloration.

**EYE CONTACT:**

**Acute Exposure:** Concentrated acetic acid vapors can cause intense watering and irritation to eyes. Contact with uncured sealant will burn tissues.

**Chronic Exposure:** Watering and irritation.

**INGESTION:**

**Acute Exposure:** Products have a low level of oral toxicity. Ingestion may cause irritation of mouth, throat, esophagus, stomach and intestinal tract. Swallowing a large amount may cause obstruction of the gastro-intestinal tract.

**Chronic Exposure:** Unknown.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be more susceptible to the effects of the products.

**CARCINOGENICITY:** Products not listed by NTP, IARC or OSHA.

**SECTION VII-EMERGENCY AND FIRST AID PROCEDURES**

**EYE CONTACT:** Wipe with cotton. Flush eyes thoroughly with large volumes of water for at least 15 minutes. Seek medical assistance if irritation develops or persists.

**SKIN CONTACT:** Wipe off paste with paper towel or cloth. Wash exposed area with soap and water.

**INHALATION:** Remove from area of exposure. Give artificial respiration if not breathing. Give oxygen for breathing difficulty. Get medical assistance.

**INGESTION:** If victim is fully conscious induce vomiting immediately by giving two glasses of water and putting finger down throat. Get medical assistance.

**NOTE TO PHYSICIAN:**

All treatment should be based on observed signs and symptoms of distress in the victim. Treat symptomatically.

**SECTION VIII-EMPLOYEE PROTECTION RECOMMENDATIONS**

**EYE PROTECTION:** Wear safety glasses. Contact lenses should not be worn.

**SKIN PROTECTION:** Wear impervious gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**VENTILATION AND RESPIRATORY PROTECTION:** If exhaust ventilation sufficient to keep the air-borne concentration

of Acetic Acid vapors below the TLV (10 ppm) is not possible, a full face OSHA/MSHA approved acid gas/ vapor respirator or air supplied respirator must be used. Observe OSHA regulations (29 CFR 1910.134) for respirator use. **NOTE: THERE MUST ALWAYS BE ENOUGH VENTILATION TO KEEP VAPOR CONCENTRATION BELOW THE LOWER FLAMMABLE LIMIT.**

**OTHER PROTECTIVE MEASURES:** Eyewash stations should be available. Educate and train employees in safe use of the products. Follow all label instructions.

**SECTION IX-REACTIVITY DATA**

**STABILITY:** Stable under ordinary conditions of use and storage. Heat and Sunlight can contribute to instability.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITY (Materials to Avoid):** Acetic acid is incompatible with chromic acid, nitric acid, ethylene glycol, perchloric acid, phosphorus trichloride, oxidizers, sodium peroxide, strong caustics, most metals (except aluminum), carbonates, hydroxides, oxides, and phosphates.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide and carbon monoxide may form when the sealants are heated to decomposition or burned. The products may also release toxic and irritating vapors.

**SECTION X-SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wipe or scrape up spilled material. Maintain good ventilation for large spills. Place scrap material in a well ventilated place and allow curing to rubber.

**WASTE DISPOSAL METHOD:** Cured rubber can be incinerated or placed in an ordinary landfill. Follow EPA and local regulations.

**RCRA STATUS:** Not an RCRA Hazardous material.

**SECTION XI-SPECIAL PRECAUTIONS & STORAGE DATA****STORAGE TEMPERATURE**

**MINIMUM / MAXIMUM:** 50°F (10°C) / 130°F (54°C)

**RECOMMENDED SHELF LIFE:** One year

**PRECAUTIONS TO BE TAKEN IN HANDLING, STORAGE AND USE:** For maximum shelf life store in a cool, dry area. Keep container closed when not in use. Acetic acid vapor is released during application and cure. Avoid breathing vapor. Avoid eye or skin contact. Do not wear contact lenses while applying material because vapor may be trapped under lenses.

**KEEP OUT OF THE REACH OF CHILDREN****SECTION XII-FEDERAL EPA REGULATION COMPLIANCE INFORMATION****EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986**

1) **Section 313 Supplier Notification:** Not Applicable

2) **Section 312:** Not Applicable

**SECTION XIII-MAXIMUM VOLATILE ORGANIC COMPOUND (V.O.C.) CONTENT OF RTV SILICONE PRODUCTS ACCORDING TO THE FEDERAL EPA**

| <b>Stock Numbers</b>        | <b>AA-G</b> | <b>CS-SA</b> | <b>CS-SB</b> | <b>CS-SBR</b> | <b>CS-SC</b> | <b>CS-SW</b> | <b>TS-B</b> | <b>TS-C</b> |
|-----------------------------|-------------|--------------|--------------|---------------|--------------|--------------|-------------|-------------|
| <b>Percent by Weight</b>    | 4.8         | 4.8          | 4.8          | 4.8           | 4.8          | 4.8          | 4.8         | 4.8         |
| <b>Pounds per Gallon</b>    | 0.39        | 0.39         | 0.39         | 0.39          | 0.39         | 0.39         | 0.39        | 0.39        |
| <b>Grams per Liter</b>      | 46          | 46           | 46           | 46            | 46           | 46           | 46          | 46          |
| <b>Pounds per Container</b> | 0.022       | 0.031        | 0.031        | 0.031         | 0.031        | 0.031        | 0.008       | 0.008       |

**SECTION XIV-CALIFORNIA PROPOSITION 65 WARNINGS**

According to the California Safe Drinking Water and Toxic Enforcement Act (PROPOSITION 65) "No person in the course of doing business shall knowingly and intentionally expose any individual to a chemical known to the State of California to cause cancer, birth defects or reproductive toxicity without first giving clear and reasonable warning to such individuals of such an exposure".

**The following warnings apply:** None

**SECTION XV-OZONE DEPLETION IN THE UPPER ATMOSPHERE**

No upper atmosphere ozone depleting chemicals are present in these products.

**DISCLAIMER:** The information contained in this MSDS is believed to be accurate and reliable as of the date indicated. **Crest Industries, Inc.** assumes no legal responsibility and makes no representation, warranty or guarantee, expressed or implied, as to the completeness or accuracy of the information. It is offered solely for your consideration, investigation and verification. The user is ultimately responsible for the safe use of the material in accordance with applicable federal, state, provincial and local laws and regulations.