

**MATERIAL SAFETY DATA SHEET  
SOLVENT BASED SEALANTS**

6/22/05

**PRODUCTS COVERED:** AS-G, AE-Z, BJ-B, BJ-B03, BJ-BQ, BJ-C, BJ-C03, BJ-L, BJ-N, BJ-W, BJ-W03, BL-R, BL-R03, BS-G, BS-G03, CE-Z, CJ-B, CJ-C, CJ-L, CJ-N, CJ-W, CR-B, CS-G, CT-JN, TJ-B, TJ-C, TJ-N, TJ-W

**SECTION I-MANUFACTURER**

Crest Industries, Inc., 1337 King Road, Trenton, MI 48183 **Phone:** (734) 479-4141 **FAX:** (734) 479-4040

**24 HOUR EMERGENCY TELEPHONE (CHEMTEL):** (800) 255-3924 **INTERNATIONAL CALLS:** (813) 248-0585

**SECTION II-PRODUCTS**

Stock Number	Product Name on Label (Color of Cartridge Contents Embossed on Plunger)	Hazardous Ingredients in Products*	HMIS RATING			Appearance and Odor	Volatile Volume%
			H	F	R		
AE-Z**	EZ Seal Glass Resealant, Flow-Grade	1,2,4,5	2	3	0	Black paste, mild solvent	44 to 49
AS-G**	EZ Seam Rubber Seam Sealer In-A-Can	1,4	2	3	0	Gray paste, mild solvent	39 to 44
BJ-B	Black Seam Sealer	1,2,4	2	3	0	Black paste, mild solvent	44 to 49
BJ-B03	Black Seam Sealer	1,2,4	2	3	0	Black paste, mild solvent	44 to 49
BJ-BQ	Brushable Qwik Seam Seam Sealer-Black	1,2,4	2	3	0	Black paste, mild solvent	50 to 55
BJ-C	Clear Seam Sealer	4,5	2	3	0	Clear paste, mild solvent	57 to 62
BJ-C03	Clear Seam Sealer	4,5	2	3	0	Clear paste, mild solvent	57 to 62
BJ-L	Silver Seam Sealer	1,4,5	2	3	0	Alum. paste, mild solvent	49 to 53
BJ-N	Brushable Qwik Seam Seam Sealer Natural	1,4	2	3	0	Beige paste, mild solvent	45 to 50
BJ-W	White Seam Sealer	1,4,5	2	3	0	White paste, mild solvent	45 to 50
BJ-W03	White Seam Sealer	1,4,5	2	3	0	White paste, mild solvent	45 to 50
BL-R	Liquid Rubber	1,2,4,5	2	3	0	Black paste, mild solvent	35 to 40
BL-R03	Liquid Rubber	1,2,4,5	2	3	0	Black paste, mild solvent	35 to 40
BS-G	Glasseal Windshield Resealant	1,2,4,5	2	3	0	Black paste, mild solvent	44 to 49
BS-G03	Glasseal Windshield Resealant	1,2,4,5	2	3	0	Black paste, mild solvent	44 to 49
CE-Z	E-Z-Flo Windshield Resealant	1,2,4,5	2	3	0	Black paste, mild solvent	44 to 49
CJ-B	Qwik Seam Rubber Seam Sealer (Black)	1,2,4,6	2	3	0	Black paste, mild solvent	35 to 40
CJ-C	Clear Seam Rubber Seam Sealer (Clear)	4,5,6	2	3	0	Clear paste, mild solvent	47 to 52
CJ-L	Rubber Seam Sealer (Aluminum)	1,4,5	2	3	0	Alum. paste, mild solvent	39 to 43
CJ-N	Qwik Seam Rubber Seam Sealer (Natural)	1,4,6	2	3	0	Beige paste, mild solvent	35 to 40
CJ-W	Rubber Seam Sealer (White)	1,4,5	2	3	0	White paste, mild solvent	41 to 46
CR-B	Re-Seal Windshield Resealant	1,2,4,5,6	2	3	0	Black paste, mild solvent	39 to 43
CS-G	One Part Auto Glass Replacement Sealant	1,2,4,5	2	3	0	Black paste, mild solvent	30 to 35
CT-JN	Rubber Seam Sealer (Natural)	1,4	2	3	0	Beige paste, mild solvent	45 to 50
TJ-B	Drip Seal Seam Sealer-Black	1,2,4	2	3	0	Black paste, mild solvent	45 to 50
TJ-C	Drip Seal Seam Sealer-Clear	4,5	2	3	0	Clear paste, mild solvent	59 to 64
TJ-N	Qwik Seam Seam Sealer-Natural	1,4	2	3	0	Beige paste, mild solvent	45 to 50
TJ-W	Drip Seal Seam Sealer-White	1,4,6	2	3	0	White paste, mild solvent	50 to 55

\*Chronic health effects may occur from the solvents and calcium carbonate contained in these products. See SECTION VI.

\*\*AE-Z and AS-G have outer containers pressurized with extremely 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**

Ingredients	CAS No.	Exposure Limits***	Flash	Vapor Pres-	Evap. Rate	Boiling	Flammable	Autoigni-
		in ppm (parts Per million)	Point °F °C	sure (mm Hg at 20°C)	(n-Butyl Acetate=1)	Point °F °C	Limits in % Lower Upper	tion Pt. °F °C
1. Calcium Carbonate <sup>4</sup>	1317-65-3	10 mg/m <sup>3</sup> Dust A	-NA-	NA	NA	-NA-	-NA-	-NA-
2. Carbon Black	1333-86-4	3.5mg/m <sup>3</sup> Dust A	-NA-	NA	NA	-NA-	-NA-	-NA-
3. Stoddard Solvent	8052-41-3	100 A, 500 O	104 40	3	0.2	318 159	0.7 6.0	>394>201
4. Toluene	108-88-3	50 A Skin, 200 O	45 7	38	1.5	230 110	1.2 7.0	900 482
5. VM&P Naphtha	64742-47-8	300 A	45 7	45	2.0	233 112	0.9 7.0	480 249
6. Xylene	1330-20-7	100 A, O	80 27	10	0.8	281 138	1.0 7.0	810 432

\*\*\*A means ACGIH TLV, O means OSHA, mg/m<sup>3</sup> means milligrams per cubic meter, E means Suppliers Recommendation

> means greater than, < means less than, NA means Not Applicable. <sup>4</sup>See SECTION VI for health hazards.

**SECTION IV-PHYSICAL DATA**

**Evaporation Rate:** See SECTIONS II, III **Vapor Density:** Heavier than air **Solubility in Water (Wt%):** Less than 1 **Volatile Volume %:** See SECTION II **Approximate Boiling Point:** See SECTIONS II, III **Product Density:** Lighter than water: BJ-C, BJ-C03, CJ-C, TJ-C. **Heavier than water:** All others.

**Appearance and Odor:** See SECTION II

**SECTION V-FIRE AND EXPLOSION DATA**

**Flash Point (Tag Closed Cup Method):** See SECTIONS II, III

**Flammable Limits:** See SECTIONS II, III

**Autoignition Temperature:** See SECTIONS II, III

**Extinguishing Media:** Foam, carbon dioxide, dry chemical

**Fire Fighting Procedures:** Full protective equipment, including

self-contained breathing apparatus, is recommended because highly toxic gasses may be generated by combustion or thermal decomposition. Water from fog nozzles may be used to cool closed containers to prevent pressure build up (containers may leak or burst).

**Unusual Fire and Explosion Hazards:** Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, electric motors, smoking or other ignition sources at locations far from material handling point. At elevated temperatures [130°F (54°C) or over] containers may vent, rupture or burst (cartridges may extrude their plungers).

**SECTION VI-HEALTH HAZARD DATA**

**PRIMARY ROUTES OF EXPOSURE:** Inhalation, Skin contact, Eye contact, Ingestion (very unlikely).

**SIGNS AND SYMPTOMS OF EXPOSURE:****INHALATION:**

**Acute Exposure:** Solvent vapors at concentrations above the TLV can irritate the respiratory tract (nose, throat, lungs) causing a burning sensation, runny nose, sore throat, coughing, chest discomfort (tightness). May cause central nervous system depression with the following progressive symptoms: headache, dizziness, nausea, staggering gait, confusion, unconsciousness, cessation of breathing and death.

**Chronic Exposure:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Symptoms include: loss of memory, loss of intellectual ability and loss of coordination.

**NOTE: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING SOLVENT VAPORS MAY BE HARMFUL OR FATAL!**

**SKIN CONTACT:**

**Acute Exposure:** Repeated or prolonged skin contact with sealants can result in dry, defatted and cracked skin causing increased susceptibility to infection. Skin irritation may develop into contact dermatitis.

**Chronic Exposure:** Exposure to small amounts of sealants over long periods of time may cause some or all of the symptoms as in acute exposure to sealants.

**EYE CONTACT:**

**Acute Exposure:** Solvent vapors may irritate the eyes with resulting itching, burning, redness. Permanent tissue damage may occur if the sealants are applied directly to the eyes and not flushed out immediately.

**Chronic Exposure:** Symptoms as in acute exposure but to a lesser degree and eye damage is not likely.

**INGESTION:**

**Acute Exposure:** (Not likely) Irritation to the mouth, and if swallowed, to the esophagus, stomach tissue and digestive tract.

**Chronic Exposure:** Unknown.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

None specifically known to Crest Industries, Inc. but it is possible that eye, respiratory tract, skin, liver, kidney, blood cell formation, nervous system and brain diseases may be aggravated by overexposure to the products on this MSDS.

**CARCINOGENICITY:** Products not listed by NTP, IARC or OSHA. **NOTE: Calcium Carbonate contains small but detectable amounts of Crystalline Silica which if inhaled can cause cancer of the lungs. Under normal use conditions the Crystalline Silica is not free to be inhaled as dust. If the dried sealants are sanded, inhalation of the sanding dust must be avoided. WEAR A DUST MASK.**

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

**EYE CONTACT:** Flush with clean, lukewarm water (low pressure) for at least 15 minutes while lifting eyelids. Refer person to physician for immediate attention.

**SKIN CONTACT:** Remove contaminated clothing immediately. Wipe off excess material with rags or paper towels. Clean with waterless hand cleaner or wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. Apply skin cream if irritated. Seek medical attention if irritation persists.

**INHALATION:** Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain

medical attention.

**INGESTION:** Induce vomiting. Consult physician, hospital emergency room or poison control center immediately. Have list of ingredients available.

**NOTES TO PHYSICIAN:**

**Eyes:** Stain for evidence of corneal injury. If cornea burned, instill antibiotic/steroid preparation frequently.

**Skin:** Treat symptomatically.

**Inhalation:** Treat as for solvent vapor inhalation.

**SECTION VIII-EMPLOYEE PROTECTION RECOMMENDATIONS**

**EYE PROTECTION:** Wearing of safety glasses is desirable during use of sealants. Contact lenses should not be worn.

**SKIN PROTECTION:** Cover as much of the skin as possible with appropriate clothing. Wear solvent resistant gloves.

**VENTILATION AND RESPIRATORY PROTECTION:** If exhaust ventilation sufficient to keep the air-borne concentration of solvents below their respective TLVs is not possible, an OSHA/MSHA approved TC23C Respirator or TC19C 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!**

**NOTE: If the dried sealants are sanded, WEAR A DUST MASK to avoid inhalation of dust.**

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

**SECTION IX-REACTIVITY DATA**

**STABILITY:** Stable under normal room conditions.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITY (Materials to Avoid):** Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** By high heat and fire: carbon dioxide, carbon monoxide, hydrocarbon vapors, smoke.

**SECTION X-SPILL OR LEAK PROCEDURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Wear protective equipment including respiratory protection. Prevent further spillage. Evacuate nonessential personnel. Remove all sources of ignition and ventilate the area. Keep spill from reaching sewers and waterways. Collect material with non-sparking tools and put in a tightly sealed container. Remove container to a safe place.

**WASTE DISPOSAL METHOD:** Follow all federal, state and local environmental control regulations. Incineration of the material is the preferred method. Containers must be handled with care due to flammable and toxic residue.

**RCRA STATUS:** Since these products are ignitable and contain toxic solvents, they are hazardous when discarded.

**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:** Keep away from heat, sparks and open flame. Do not store in temperatures above 130°F (54°C) or in direct sunlight. Do not inhale vapors. Avoid contact with skin and eyes. Wash hands after use and before eating, drinking, smoking or using the toilet. Educate and train employees in the safe use and handling of these materials as required under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**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:**

Chemicals marked with an \* in the following tables are subject to the Toxic Chemical Release Inventory Reporting Requirements using **EPA FORM R** (40 CFR Part 372).

**2) Section 312:** All the chemicals listed are subject to Emergency and Hazardous Chemical Inventory Forms and Community Right-to-Know Reporting Requirements: Tier I and Tier II Reports (40 CFR Part 370).

**NOTE:** This information **MUST**, according to law, be included in all MSDSs that are copied and distributed for materials covered by this MSDS.

**HAZARDOUS INGREDIENTS IN SOLVENT BASED SEALANTS-APPROXIMATE PERCENTAGES BY WEIGHT**

Ingredients (Chemicals)	CAS Number	BJW													
		AEZ	ASG	BJB	BJB03	BJBQ	BJC	BJC03	BJL	BJN	BJW03	BLR	BLR03	BSG	BSG03
1. Calcium Carbonate	1317-65-3	33	34	37	37	30	-	-	40	30	43	32	32	31	31
2. Carbon Black	1333-86-4	0.4	-	0.5	0.5	0.5	-	-	-	-	-	0.5	0.5	0.4	0.4
3. Stoddard Solvent	8052-41-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*4. Toluene	108-88-3	06	30	32	32	38	23	23	05	32	04	09	09	06	06
5. VM&P Naphtha	64742-47-8	24	-	-	-	-	32	32	25	-	24	18	18	26	26
Physical Hazard-Fire		30	30	32	32	38	55	55	30	32	28	27	27	32	32
Physical Hazard-Pressure Release		NONE OF THE SEALANTS HAVE THIS HAZARD													
Health Hazard-Acute		30	30	32	32	38	55	55	30	32	28	27	27	32	32
Health Hazard-Chronic		63	64	69	69	68	55	55	70	62	71	59	59	63	63
Physical Hazard-Reactivity		NONE OF THE SEALANTS HAVE THIS HAZARD													

Ingredients (Chemicals)	CAS Number	None of the Sealants have this hazard													
		CEZ	CJB	CJC	CJL	CJN	CJW	CRB	CSG	CTJN	TJB	TJC	TJN	TJW	
1. Calcium Carbonate	1317-65-3	33	39	-	42	39	45	39	42	30	30	-	30	30	
2. Carbon Black	1333-86-4	0.4	01	-	-	-	-	0.4	01	-	0.5	-	-	-	
3. Stoddard Solvent	8052-41-3	-	-	-	-	-	-	-	-	-	-	-	-	-	
*4. Toluene	108-88-3	06	21	10	04	21	04	04	07	32	38	23	32	37	
5. VM&P Naphtha	64742-47-8	24	-	22	20	-	20	13	11	-	-	32	-	-	
*6. Xylene	1330-20-7	-	04	11	-	04	-	05	-	-	-	-	-	02	
Physical Hazard-Fire		30	25	43	24	25	24	22	18	32	38	55	32	39	
Physical Hazard-Pressure Release		NONE OF THE SEALANTS HAVE THIS HAZARD													
Health Hazard-Acute		30	25	43	24	25	24	22	18	32	38	55	32	39	
Health Hazard-Chronic		63	64	43	66	64	69	61	60	62	68	55	62	69	
Physical Hazard-Reactivity		NONE OF THE SEALANTS HAVE THIS HAZARD													

**SECTION XIII-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:

- 1. Products Covered:** AS-G, AE-Z, BJ-B, BJ-B03, BJ-BQ, BJ-L, BJ-N, BJ-W, BJ-W03, BL-R, BL-R03, BS-G, BS-G03, CE-Z, CJ-B, CJ-L, CJ-N, CJ-W, CR-B, CS-G, CT-JN, TJ-B, TJ-N, TJ-W

**WARNING:** These product contains **Toluene**, a chemical known to the State of California to cause birth defects and other reproductive harm and **Calcium Carbonate**, a chemical known to the State of California to cause cancer.

**NOTE:** Calcium Carbonate contains small but detectable amounts of Crystalline Silica (less than 1 percent) which if inhaled can cause cancer of the lungs. Under normal use conditions the Crystalline Silica is not free to be inhaled as dust. If the dried sealants are sanded, inhalation of the dust must be avoided.

- 2. Products Covered:** BJ-C, BJ-C03, CJ-C, TJ-C

**WARNING:** These products contain **Toluene**, a chemical known to the State of California to cause birth defects and other reproductive harm.

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

No 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.