

**MATERIAL SAFETY DATA SHEET  
BULK CLEANERS—WATER BASED**

6/20/05

**PRODUCTS COVERED:** BC-S, BD-L, BG-C, BG-K, BP-K, BU-K, BW-K

**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	Numbers of Ingredients in Products	HMIS RATING			Appearance and Odor	Solubility % in Water	Volatile Volume%
			H	F	R			
BC-S	Car Wash Soap	4,8,10	2	0	0	Green liq., minty odor	100	96
BD-L	Lemon Deodorant	6,7	1	0	0	Sl. ylw. liq., lemon odor	100	99
BG-C	Glass Bright	2,8	2	0	0	Sl. ylw. liq., Ammonia odor	100	99
BG-K	Glass Cleaner	6,8	2	1	0	Yellow liq., alcohol odor	100	99
BP-K	Vinyl Plastic Cleaner	1,5,8,10,11	2	0	0	Clear liq., pleasant odor	100	83
BU-K	Upholstery Cleaner	4,8,10	2	0	0	Clear liq., minty odor	100	96
BW-K	Hard Surface Cleaner	1,3,5,9,10,11	3	1	0	Sl. Yellow liq., mild odor	100	100

**SECTION III—HAZARDOUS INGREDIENTS**

Ingredients	CAS Number	Exposure Limits* in ppm (parts per million)	Flash Point °F °C	Vapor Pressure (mm Hg at 20°C)	Evap. Rate (n-Butyl Acetate=1)	Boiling Point °F °C	Flammable Limits in %		Autoignition Pt. °F °C	
							Lower	Upper	°F	°C
1. Alkylloxypolyethyleneoxyethanol	68131-40-8	NE	-NA-	NA	NA	-NA-	-NA-	-NA-	-NA-	-NA-
2. Ammonia	7664-41-6	25 A, 50 O	-NA-	NA	NA	-NA-	-NA-	-NA-	-NA-	-NA-
3. 2-Butoxyethanol	111-76-2	25 A, O (skin)	165	74	0.9	340 171	-NA-	-NA-	-NA-	-NA-
4. Coconut Oil Alkanolamide	68604-42-9	NE	-NA-	NA	NA	-NA-	-NA-	-NA-	-NA-	-NA-
5. 2-(2-ethoxyethoxy)ethanol	111-90-0	30 E	196	91	0.13	396 202	-NA-	-NA-	Unknown	Unknown
6. Isopropyl Alcohol	67-63-0	400 A, O	53	12	31	180 82	2.0	12.0	750	399
7. Petroleum Distillate	68551-18-8	500 A, O	103	39						
8. Sodium alpha-Olefin Sulfonate	68439-57-6	NE	-NA-	NA	NA	-NA-	-NA-	-NA-	-NA-	-NA-
9. Sodium Metasilicate	6834-92-0	NE	-NA-	NA	NA	-NA-	-NA-	-NA-	-NA-	-NA-
10. Sodium Triphosphate	7758-29-4	NE	-NA-	NA	NA	-NA-	-NA-	-NA-	-NA-	-NA-
11. Trisodium Phosphate Dodecahydrate	10101-89-0	NE	-NA-	NA	NA	-NA-	-NA-	-NA-	-NA-	-NA-

\*A means ACGIH TLV, O means OSHA PEL. Other abbreviations: E means Suppliers Number, CE means Crest Estimate, > means greater than, < means less than, Unk means Unknown, NA means Not Applicable, NE means Not Established.

**SECTION IV—PHYSICAL DATA**

**Evaporation Rate:** See SECTIONS II, III **Vapor Density:** Heavier than air **Solubility in Water (Wt%):** See SECTION II **Volatile Volume %:** See SECTION II **Approximate Boiling Point:** See SECTIONS II, III **Product Density (water=1):** Greater than 1. **Appearance and Odor:** See SECTION II

**SECTION V—FIRE AND EXPLOSION DATA**

**Flammability Class:** Non-Flammable. However, BG-K and BW-K may flash if vapors are ignited, but products will not burn.

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

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

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

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

**Special 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 when heated).

**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.

**SECTION VI—HEALTH HAZARD DATA**

**PRIMARY ROUTES OF EXPOSURE:** Inhalation, Skin contact, Eye contact.

**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 solvent vapors 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 ANY SOLVENT VAPORS MAY BE HARMFUL OR FATAL!**

**SKIN CONTACT:**

**Acute Exposure:** Repeated or prolonged skin contact with cleaners 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 cleaners over long periods may cause some or all of the symptoms as in acute exposure to cleaners. **NOTE: 3. 2-Butoxyethanol** is readily absorbed through the skin and may cause liver, kidney, blood or lymph system damage, depending on the duration and level of exposure.

**EYE CONTACT:**

**Acute Exposure:** Irritation of the eyes with itching, burning, redness and even permanent tissue damage if gotten directly into the eyes and not flushed out immediately.

**Chronic Exposure:** Irritation of the eyes with itching, burning, redness.

**INGESTION:**

**Acute Exposure:** Irritation to the mouth, and if swallowed, to the esophagus, stomach tissue and digestive tract. If swallowed, vomiting may cause breathing of liquid solvent resulting in chemical pneumonia.

**Chronic Exposure:** Unknown.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** (See NOTES) 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.

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

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

**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. Wash affected areas thoroughly with water. Wash contaminated clothing thoroughly before reuse. Seek medical attention if irritation develops or persists.

**INGESTION: DO NOT INDUCE VOMITING!** Consult physician, hospital emergency room or poison control center immediately. Have list of ingredients available.

**NOTES TO PHYSICIAN:**

**Inhalation:** Treat as for solvent vapor inhalation. Bronchodilators, expectorants and antitussives may help.

**Eyes:** May cause conjunctivitis. Stain for evidence of corneal injury.

**Skin:** Treat as any contact dermatitis.

**Ingestion:** Treat as for solvent ingestion. Inducing vomiting is contraindicated because of the possibility of chemical pneumonia caused by aspiration of solvent liquid.

**SECTION VIII—EMPLOYEE PROTECTION RECOMMENDATIONS**

**EYE PROTECTION:** Wear safety glasses, splash goggles or face shield. 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 airborne concentrations of solvents below their respective TLV's is not possible, an OSHA/MSHA approved TC23C Paint Spray Respirator with Particulate Prefilter 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!**

**KEEP OUT OF THE REACH OF CHILDREN!**

**SECTION XII—EPA INFORMATION**

**The following percentage table is to be used to meet Environmental Protection Agency (EPA) Regulations:**

- 40 CFR Part 370 Emergency and Hazardous Chemical Inventory Forms and Community Right-to-Know Reporting Requirements.
- Title III Section 313 Toxic Chemical Release Reporting Requirements.

**Note:** All the chemicals listed must be considered for 1. above. Only the ones marked with an asterisk fall under 2.

**HAZARDOUS INGREDIENTS IN BULK CLEANERS-WATER BASED—APPROXIMATE PERCENTAGES BY WEIGHT**

Ingredients (Chemicals)	CAS Number	BC-S	BD-L	BG-C	BG-K	BP-K	BU-K	BW-K
1. Alkyloxyethyleneoxyethanol	68131-40-8	—	—	—	—	01	—	05
*2. Ammonia	7664-41-6	—	—	02	—	—	—	—
3. 2-Butoxyethanol	111-76-2	—	—	—	—	—	—	09
4. Coconut Oil Alkanolamide	68604-42-9	03	—	—	01	—	03	—
5. 2-(2-ethoxyethoxy)ethanol	111-90-0	—	—	—	—	03	—	02
6. Isopropyl Alcohol	67-63-0	—	02	—	15	—	—	—
7. Petroleum Distillate	68551-18-8	—	01	—	—	—	—	—
8. Sodium alpha-Olefin Sulfonate	68439-57-6	05	—	—	11	04	05	09
9. Sodium Metasilicate	6834-92-0	—	—	—	—	—	—	02
10. Sodium Triphosphate	7758-29-4	05	—	—	—	03	05	02
11. Trisodium Phosphate Dodecahydrate	10101-89-0	—	—	—	—	03	—	02
Physical Hazard-Fire		—	03	—	15	03	—	11
Physical Hazard-Pressure Release								NOT A HAZARD
Health Hazard-Acute		13	03	02	42	17	13	42
Health Hazard-Chronic								NOT A HAZARD
Physical Hazard-Reactivity								NOT A HAZARD

**SECTION XIII—VOLATILE ORGANIC COMPOUND (V.O.C.) CONTENT**

	BC-S	BD-L	BG-C	BG-K	BP-K	BU-K	BW-K
Percent by Weight	0	3	0.34	15.2	3	0	11.5
Pounds per Gallon	0	0.26	0.03	1.30	0.20	0	1.01
Grams per Liter	0	31	4	155	24	0	122

**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**

None of the products on this MSDS contains Upper Atmosphere ozone depleting substances.

**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.

**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 fumes, smoke.

**SECTION X—SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Put on 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. Cover the spill with sawdust, vermiculite, Fuller's Earth or other absorbent material. 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 liquid or dried material is the preferred method. **RCRA STATUS:** Not Applicable

**SECTION XI—SPECIAL PRECAUTIONS & STORAGE DATA**

**STORAGE TEMPERATURE MINIMUM / MAXIMUM:**  
50°F (10°C) / 120°F (49°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 120°F (49°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. Employee education and training in the safe use and handling of these materials are required under the OSHA Hazard Communication Standard (29 CFR 1910.1200).