

**MATERIAL SAFETY DATA SHEET
HAND CLEANERS**

6/20/05

**PRODUCTS COVERED: BC-HS (CRSCHS on label), BG-T (ZBGT on label), BH-P (ZCHCP on label),
TG-T (ZTGT on label), ZBAJ, ZBGTR**

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

<u>Crest Stock</u>	<u>Product Name on Label</u>	<u>Numbers of Ingredients in Products</u>	<u>HMS RATING</u>			<u>Appearance and Odor</u>	<u>Solubility</u>		<u>Volatile</u>	
			<u>H</u>	<u>F</u>	<u>R</u>		<u>% in Water</u>	<u>Volume %</u>		
BC-HS	Premium Skin Saver Hand Cleanser	1,5,8,17	1	2	0	Orange gel, citrus odor	Rinseable	Unknown		
BG-T	Green Tangerine Hand Cleaner	2,3,5,9,12, 13,14,15,18	1	2	0	Green gel, citrus odor	Rinseable	Unknown		
BH-P	Abrazo Hand Cleaner with Pumice	6,10,12,13, 14,16,18	2	2	0	White gel, pleasant odor	Rinseable	Unknown		
TG-T	Green Tangerine Hand Cleaner	2,3,5,9,12, 13,14,15,18	1	2	0	Green gel, citrus odor	Rinseable	Unknown		
ZBAJ	Aloha Joe Multi-Mission Hand Cleaner with Pumice	4,5,7,9,11,12, 14,16,18	1	2	0	Green gel, pleasant odor	Rinseable	Unknown		
ZBGTR	Green Tangerine Mini Keg	2,3,5,9,12,13, 14,15,18	1	2	0	Green gel, citrus odor	Rinseable	Unknown		

<u>Crest Stock</u>	<u>Product Name on Label</u>	<u>Flash Point</u>		<u>Vapor Pressure (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>		
BC-HS	Premium Skin Saver Hand Cleanser	>118	>48	Unknown	<1	>212	>100	Unknown	Unknown	Unknown	Unknown	Unknown
BG-T	Green Tangerine Hand Cleaner	>118	>48	Unknown	<1	>212	>100	Unknown	Unknown	Unknown	Unknown	Unknown
BH-P	Abrazo Hand Cleaner with Pumice	>129	>63	Unknown	<1	>212	>100	Unknown	Unknown	Unknown	Unknown	Unknown
TG-T	Green Tangerine Hand Cleaner	>118	>48	Unknown	<1	>212	>100	Unknown	Unknown	Unknown	Unknown	Unknown
ZBA-J	Aloha Joe Multi-Mission Hand Cleaner with Pumice	>118*	>48	Unknown	<1	>212	>100	Unknown	Unknown	Unknown	Unknown	Unknown
ZBGTR	Green Tangerine Mini Keg	>118	>48	Unknown	<1	>212	>100	Unknown	Unknown	Unknown	Unknown	Unknown

*> means greater than, < means less than.

SECTION III—HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS Number</u>	<u>Exposure Limits*</u>
		<u>in ppm (parts per million)</u>
1. Clay	1317-65-3	10 mg/m ³ (dust)
2. Dibasic Ester	62-93-0	Not Determined
3. Dibasic Ester	1119-40-0	Not Determined
4. Dimethyl Oxazolidine	51200-87-4	Not Determined
5. d-Limonene	5989-27-5	Not Determined
6. Ethanolamine	141-43-5	3 ppm
7. Isoparaffin	64742-48-9	300 ppm M
8. Isoparaffin	68551-17-7	300 ppm M
9. Laureth-3 (Nonionic Surfactant)	68551-12-2	Not Determined
10. Mineral Oil Mixture		Not Determined
11. Mineral Spirits	60742-59-9	Not Determined
12. Nonoxynol-9 (Nonionic Surfactant)	9016-45-9	Not Determined
13. Petrolatum	8009-03-8	5mg/m ³ A mist
14. Propylene Glycol	57-55-6	Not Applicable
15. Pumice	Unknown	Not Determined
16. Pumice	10097-28-6	Not Determined
17. Pumice	60676-86-0	Not Determined
18. Sodium Hydroxide	1310-3-2	2mg/m ³

*A means ACGIH TLV, O means OSHA PEL. Other abbreviations: M means manufacturer recommendation, NA means Not Applicable.

SECTION IV—PHYSICAL DATA

Evaporation Rate: See SECTION II.
Vapor Density: Heavier than air.
Solubility in Water (Wt%): See SECTION II.
Volatile Volume %: See SECTION II.
Approximate Boiling Point: See SECTION II.
Product Density (water=1): 1.0 to 1.1
Appearance and Odor: See SECTION II

SECTION V—FIRE AND EXPLOSION DATA

Flammability Class: Non-flammable
Flash Point (Tag Closed Cup Method): See SECTION II.
Approximate Flammable Limits: See SECTION II.
Autoignition Temperature: See SECTION II.
Extinguishing Media: Water fog, Foam, carbon dioxide, dry chemical
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None

SECTION VI—HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Inhalation, skin contact, eye contact, and ingestion.
SIGNS AND SYMPTOMS OF EXPOSURE:
INHALATION:
Acute Exposure: Not a hazard with normal ventilation.
Chronic Exposure: Unknown

SKIN CONTACT:

Acute Exposure: Non-Irritating. No significant effects are expected and any emergency is unlikely.

Chronic Exposure: None known

EYE CONTACT:

Acute Exposure: Eye irritation

Chronic Exposure: Burning, itching and redness

INGESTION:

Acute Exposure: May be hazardous.

Chronic Exposure: None known

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None known

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

SECTION VII-EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Get fresh air.

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

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

SKIN CONTACT: Non-Irritating. Since the products are hand cleaners, any emergency is unlikely.

KEEP OUT OF THE REACH OF CHILDREN!

SECTION XII-FEDERAL EPA REGULATION COMPLIANCE INFORMATION-EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986

Not Applicable

SECTION XIII-VOLATILE ORGANIC COMPOUND (V.O.C.) CONTENT ACCORDING TO THE FEDERAL EPA

Unknown

SECTION XIV-CALIFORNIA PROPOSITION 65 WARNINGS

The following warnings apply: NONE

SECTION XV-OZONE DEPLETION IN THE UPPER ATMOSPHERE

These products do not contain upper atmosphere ozone depleting substances

SECTION VIII-EMPLOYEE PROTECTION RECOMMENDATIONS

EYE PROTECTION: Not normally needed

SKIN PROTECTION: Not needed

VENTILATION AND RESPIRATORY PROTECTION: Not needed

OTHER PROTECTIVE MEASURES: Rinse with water after using, Follow all label instructions.

SECTION IX-REACTIVITY DATA

STABILITY: Stable under normal room conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (Materials to Avoid): Strong oxidants

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: Scoop up with shovel. Scrub with detergent and water.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal regulation. Incineration is usually best.

RCRA STATUS: Not listed by NTP, IARC or OSHA

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: Store below 120°F (49°C) and away from sources of ignition.

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.