

**MATERIAL SAFETY DATA SHEET
NEOPRENE CONTACT ADHESIVES**

7/11/05

PRODUCT COVERED: BA-A, BA-S, BT-A, BT-A05, TA-A

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>Stock Number</u>	<u>Product Name on Label</u>	<u>Numbers of Ingre- dients in Products</u>	<u>HMIS RATING</u>			<u>Appearance and Odor</u>	<u>Solubility % in Water</u>	<u>Volatile Volume%</u>
			<u>H</u>	<u>F</u>	<u>R</u>			
BA-A	Amber Tack	1, 3, 4, 5, 6	2	3	0	Yellow liquid, strong solvent	40-45	85-95
BA-S	Speedy Tack	1, 3, 4, 5, 6	2	3	0	Yellow liquid, strong solvent	10-15	85-95
BT-A	Vinyl Tack	1, 3, 4, 5, 6	2	3	0	Yellow liquid, strong solvent	40-45	85-95
BT-A05	Vinyl Tack	1, 2, 3, 4, 5, 6	2	3	0	Yellow liquid, strong solvent	15-20	85-95
TA-A	Amber Tack	1, 3, 4, 5, 6	2	3	0	Yellow liquid, strong solvent	40-45	85-95

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>Autoig- nition 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. Acetone	67-64-1	750 ppm A, O	-4	-20	185	7.7	132	56	2.6	12.8	869	465
2. Aliphatic Petroleum Distillate	64742-89-8	400 O	<20	<-7	60	3.9	206	97	1.2	6.8	536	280
3. n-Hexane**	110-54-3	50 A, 500 O**	-7	-22	140 E	8.1	156	69	1.2	7.4	437	225
4. Methylcyclopentane	96-37-7	500 A, O	-20	-29	140 CE	8 CE	161	72	1.2 CE	7.5	496	258
5. Methylpentane	43133-95-5	500 A, O	-20	-29	140 CE	8 CE	140	60	1.2 CE	7.5	507	264
6. Toluene	108-88-3	50 A Skin, 200 O	45	7	38	1.5	230	110	1.2	7.0	896	480

*A means ACGIH TLV, O means OSHA PEL. Other abbreviations: E means Suppliers Number, CE means Crest Estimate, mg/m³ means milligrams per cubic meter, > means greater than, < means less than, Unk means Unknown, NE means Not Established, NA means Not Applicable. **See NOTES in SECTION VI.

SECTION IV-PHYSICAL DATA

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

SECTION V-FIRE AND EXPLOSION DATA

Flammability Class: Flammable Liquid. **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 solvents with permanent brain and nervous system damage. Symptoms include: loss of memory, loss of intellectual ability and loss of coordination. **NOTE:** Prolonged and/or repeated overexposure to **3. n-Hexane** may cause Peripheral Neuropathy (damage to nerve tissue of the arms or legs) resulting in muscular weakness and loss of sensation in some or all of the following: fingers, hands, arms, toes, feet or legs. **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 solvents 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 solvent over long periods may cause some or all of the symptoms as in acute exposure to solvents.

EYE CONTACT:

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

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

INGESTION:

Acute Exposure: (Not likely unless deliberately sprayed into mouth.) 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

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. Clean affected areas thoroughly with waterless hand cleaner and wash with soap and water. Dry clean contaminated clothing thoroughly before reuse. Seek medical attention if irritation develops or persists.

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

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

Neoprene Contact Adhesives MSDS-7/11/05-page 2
and fire: carbon dioxide, carbon monoxide, hydrocarbon vapors,
hydrogen chloride, chlorine, phosgene and chlorinated hydrocar-
bon vapors, smoke.

NOTES TO PHYSICIAN:

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

Skin: Treat as any contact dermatitis.

Inhalation: Treat as for solvent vapor inhalation. Broncho- dilators, expectorants and antitussives may help.

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 sol- vents below their respective TLV's is not possible, an OSHA/MSHA approved TC23C Paint Spray Respirator with Par- ticulate Prefilter (use Prefilter when spraying BT-A05) or TC19C Air Supplied Respirator must be used. Observe OSHA regula- tions (29 CFR 1910.134) for respirator use. **NOTE: THERE MUST ALWAYS BE ENOUGH VENTILATION TO KEEP VA- POR CONCENTRATION BELOW THE LOWER FLAMMABLE LIMIT!**

OTHER PROTECTIVE MEASURES: Eyewash stations should be available. Educate and train employees in safe use of prod- ucts. 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

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 Re- lease 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 should be included in all MSDSs that are copied and distributed for materials covered by this MSDS.

HAZARDOUS INGREDIENTS IN NEOPRENE CONTACT ADHESIVES-APPROXIMATE PERCENTAGES BY WEIGHT

Ingredients (Chemicals)	CAS Number	BA-A	BA-S	BT-A	BT-A05	TA-A
*1. Acetone	67-64-1	40-45	10-15	40-45	15-20	40-45
2. Aliphatic Petroleum Distillate	64742-89-8	-	-	-	10-15	-
*3. n-Hexane	110-54-3	25-30	10-15	25-30	25-30	25-30
4. Methylcyclopentane	96-37-7	1-5	10-15	1-5	1-5	1-5
5. Methylpentane	43133-95-5	1-5	10-15	1-5	1-5	1-5
*6. Toluene	108-88-3	10-15	30-35	10-15	15-20	10-15
Physical Hazard-Fire		75-90	75-90	75-90	75-90	75-90
Physical Hazard-Pressure Release		N O T A	H A Z A R D			
Health Hazard-Acute		75-90	75-90	75-90	75-90	75-90
Health Hazard-Chronic		25-30	10-15	25-30	25-30	25-30
Physical Hazard-Reactivity		N O T A	H A Z A R D			

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

	BAA	BAS	BTA	BTA05	TAA
Percent by Weight	37.4	69.5	37.4	63.0	36.2
Pounds per Gallon	2.61	4.88	2.61	5.17	2.55
Grams per Liter	313	581	313	620	305
Pounds per Container	0.163	0.305	0.163	25.9	0.159

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 warning applies: WARNING: These products contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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.