

MATERIAL SAFETY DATA SHEET
HEAVY DUTY BRAKE QUIET (BB-QHD)

6/20/05

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 Product	HMIS RATING			Appearance and Odor	Solubility in Water	Volatile Volume %
			H	F	R			
BB-QHD	Heavy Duty Brake Quiet	1,2,3,4	2	3	0	High viscosity, black liquid. Slightly sweet solvent odor.	<1	68

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. Aliphatic Petroleum Distillate	64742-89-8	400 A	Unkn	Unknown	Unknown	181 83	Unknown	Unknown	Unknown	Unknown
2. Carbon Black	1333-86-4	3.5mg/m ³ **A, O	-NA-	NA	NA	-NA-	-NA-	-NA-	-NA-	-NA-
3. Graphite	7782-42-5	2 mg/m ³ **A	-NA-	NA	NA	-NA-	-NA-	-NA-	-NA-	-NA-
4. 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: > means greater than, < means less than, NA means Not Applicable, Skin means vapor exposure to the skin must also be considered, Unk means Unknown. **See NOTE in SEC. VI.

SECTION IV—PHYSICAL DATA

Evaporation Rate (n-Butyl Acetate=1): 1.5 **Vapor Density (air = 1):** 1.3 **Solubility in Water (Wt %):** Less than 1. **Volatile Volume %:** 68 **Approximate Boiling Point:** 181°F (83°C) **Product Density (water = 1):** 1.1

Appearance and Odor: See SECTION II.

SECTION V—FIRE AND EXPLOSION DATA

Flammability Class: Flammable Liquid **Flash Point (Tag Closed Cup Method):** 54°F (11°C) **Approximate Flammable**

Limits: See SECTION III. **Autoignition Temperature:** See SECTION III. **Extinguishing Media:** Foam, carbon dioxide, and 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.

SECTION VI—HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Inhalation, Skin contact, Eye contact and 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!**

NOTE: Chronic inhalation of 3. Graphite is associated with the development of pneumoconiosis, a disease of the lungs.

SKIN CONTACT:

Acute Exposure: Repeated or prolonged skin contact 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 over long periods may cause some or all of the symptoms as in acute exposure.

EYE CONTACT:

Acute Exposure: Solvent vapors may irritate the eyes with resulting itching, burning, redness. Permanent tissue damage may occur if 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 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 this product.

CARCINOGENICITY: This product is not listed by NTP, IARC or OSHA. **NOTE: 2. Carbon black** has caused cancer in animals according to IARC.

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: DO NOT 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.

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: 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!**

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

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 be included in all MSDSs that are copied and distributed for this product.

Ingredients (Chemicals)	CAS Number	Weight Percent
1. Aliphatic Petroleum Distillate	64742-89-8	27
2. Carbon Black	1333-86-4	1-5
3. Graphite	7782-42-5	1-5
4. Toluene	108-88-3	28
Physical Hazard-Fire		55
Physical Hazard-Pressure Release		NOT A HAZARD
Health Hazard-Acute		55
Health Hazard-Chronic		33
Physical Hazard-Reactivity		NOT A HAZARD

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

Percent by Weight: 55.0, **Pounds per Gallon:** 5.0, **Grams per Liter:** 600, **Pounds per Container:** 0.32

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: This product contains **Toluene**, a chemical known to the State of California to cause birth defects and other reproductive harm. .

SECTION XV-OZONE DEPLETION IN THE UPPER ATMOSPHERE

This product does not contain 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.

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: 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 this product is ignitable and contains toxic solvents, it is hazardous when discarded.

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 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).