

# MATERIAL SAFETY DATA SHEET

Bea Coil Super Concentrate

MSDS DATE:12/13/11

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Bea Coil Super Concentrate  
**MANUFACTURER:** Beaver Research Company  
**ADDRESS:** 3700 Kilgore Rd. Portage, MI 49002

**EMERGENCY PHONE:** 1-800-255-3924  
**CHEMTEL PHONE:** 1-800-255-3924  
**OTHER CALLS:** 269-382-0133

**PRODUCT USE:** Coil cleaner concentrate

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>PEL</u>	<u>TLV</u>
Caustic Soda	1310-73-2	2mg/M <sup>3</sup>	2mg/M <sup>3</sup>
Surfactant	privileged	Not Established	
Sodium Gluconate	527-07-1	Not Established	
Corrosion Inhibitor	privileged	Not Established	
Water	7732-18-5	Not Established	

## SECTION 3: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Danger highly corrosive material. Causes severe burns to respiratory tract, skin, eyes and gastrointestinal tract. Causes permanent eye damage.

**ROUTES OF ENTRY:** Skin, Eyes, Ingestion, Inhalation.

**EYES:** Causes severe burns, stinging, redness, tearing, swelling, and may cause corneal damage, blindness. Burning may not be immediately painful or visible.

**INGESTION:** Causes burning of mouth, throat, and digestive tract and may be fatal.

**INHALATION:** May cause irritation (possibly severe), chemical burns, upper respiratory damage, and pulmonary edema.

**SKIN (DERMAL):** Corrosive! May cause redness, pain, and severe skin burns. Concentrated solutions cause deep ulcers and discolor skin.

**MEDICAL CONDITION AGGRAVATED:** Asthma, bronchitis, emphysema and other lung diseases and chronic nose, sinus or throat conditions. Skin irritation may be aggravated in individuals with existing skin disorders.

**CHRONIC HEALTH HAZARDS:** Dermatitis may occur due to long-term irritation.

**CARCINOGENICITY:** OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

## SECTION 4: FIRST AID MEASURES

**EYES:** Immediately flush with water for 20-30 minutes while holding eyelids open. Seek medical attention if irritation persists. Irrigate with water repeatedly. **INGESTION:** Do not induce vomiting unless directed by medical authority. Immediately rinse mouth with water. Drink large quantities (1 qt, 2-4 glasses) of water, milk, or yogurt. Seek immediate medical attention. **INHALATION:** Move to fresh air. Avoid breathing oil mists. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration. Seek immediate medical attention. **SKIN:** Immediately wash with water for at least 15 minutes. Remove contaminated clothing and shoes immediately. Product is alkaline continue to rinse until slick feeling is gone. If irritation develops seek medical attention.

## SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR, (% BY VOLUME)** UPPER: N/A LOWER: N/A  
**FLASH POINT: METHOD USED:** TCC F: >200 C: >93  
**AUTOIGNITION TEMPERATURE:** F: N/A C: N/A  
**NFPA HAZARD CLASSIFICATION:** HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1 OTHER:  
**HMIS HAZARD CLASSIFICATION:** HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1 PROTECTION: C  
**EXTINGUISHING MEDIA:** Dry chemical, foam, water, or carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Use water spray only to cool exposed containers or move container from fire area if it can be done without risk.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Cool fire exposed containers with water spray. Contact with some metals, particularly magnesium, aluminum and galvanized zinc can generate hydrogen rapidly which is explosive.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, acrylic monomers, nitrogen oxides, and metal oxides under forced combustion

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:** Dike area to contain spill. Dilute small spills with large quantities of water and then neutralize with a dilute acid. Flush area with water until clean. Larger spills can be removed with a vacuum truck. Dispose in accordance with local, state and federal laws.

**RCRA STATUS:** Un-neutralized material is a RCRA Hazardous waste because it exhibits the corrosive characteristics as defined in EPA rules at 40 CFR 261.22(a)(1).

## SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in a cool dry area. Do not allow materials to contact organic materials or strong acids. Replace cap on container after each use. Wear protective clothing when using. Avoid breathing vapor or mist. Do not get on skin, clothing, or in eyes. Never add water to a caustic solution. Always add caustic solution to water and provide agitation.

**OTHER PRECAUTIONS:** Keep away from children.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Ensure compliance with applicable limits.

**VENTILATION:** Provide local exhaust ventilation where dust or mist may be generated.

**RESPIRATORY PROTECTION:** Not necessary under normal use. Wear NIOSH, MSHA approved mechanical filter type.

**EYE PROTECTION:** Face shield and may use Safety glasses or goggles.

**SKIN PROTECTION:** Rubber gloves

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** wear clothing that will cover all areas of skin on arms, torso, and legs. If clothing becomes contaminated remove and wash immediately or wear protective apron.

**WORK HYGIENIC PRACTICES:** Wash hands after use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear Yellow

**ODOR:** Mild

**PHYSICAL STATE:** Liquid

**pH AS SUPPLIED:** Alkaline

**BOILING POINT:** F: 212 C: 100

**MELTING POINT:** F: not tested C:

**FREEZING POINT:** F: not tested C:

**VAPOR PRESSURE (mmHg):** 17.5 @ F: C:

**VAPOR DENSITY (AIR = 1):** <1 @ F: C:

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1 @ F: 77 C: 25

**EVAPORATION RATE (Butyl Acetate = 1):** <1

**SOLUBILITY IN WATER:** 100%

**PERCENT VOLATILE:** >60% by VOL @ F: 77 C: 25

## SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** STABLE X

UNSTABLE

**CONDITIONS TO AVOID (STABILITY):** Avoid incompatible material.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizers, acids, alkalis, organic chemicals, combustible materials.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxides of carbon, acrylic monomers, nitrogen oxides, and metal oxides under forced combustion

**HAZARDOUS POLYMERIZATION:** None

**CONDITIONS TO AVOID (POLYMERIZATION):** None

## SECTION 11: TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** The severity of tissue damage is a function of its concentration, length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur.

## SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Sodium Hydroxide - 1310-73-2 Bluegill sunfish: 48-hour LC50= 99 mg/L, Mosquito fish: 96-hour LC50= 125 mg/L. Brown shrimp (Crangon crangon): 48-hour LC50= 30 - 100 mg/L, Brook Trout: 24-hour LC50=25ppm The damaging effects are mostly a consequence of the increase in pH. The upper pH limit tolerated by most freshwater fish is 8.4; the pH must generally be greater than 9 before the aqueous environment becomes lethal for fully developed fish. Freshwater algae are destroyed above pH 8.5. Concentrations of 20 to 100 mg/L have been reported to kill salmon, trout, carp and crayfish. [Ref. , Environment Canada, Environmental Protection Service, Sodium Hydroxide Environmental and Technical Information for Problem Spills. June 1984]

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Dispose of in accordance with federal, state, and local regulations. Do not reuse container and recycle or place in trash collection. Drums and pails should be offered for recycling.

**RCRA HAZARD CLASS:** Not a hazardous waste under RCRA; however product should be fully characterized prior to disposal (40 CFR 261).

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

**PROPER SHIPPING NAME:** Cleaning Compound, N.O.S.

**HAZARD CLASS:** ORM-D

**PACKING GROUP:**

**ID NUMBER:**

**LABEL STATEMENT:**

### WATER TRANSPORTATION

**PROPER SHIPPING NAME:** Corrosive Liquid, Basic, Inorganic, N.O.S., (Sodium Hydroxide)

**HAZARD CLASS:** 8

**PACKING GROUP:** III

**ID NUMBER:** UN 3266

**LABEL STATEMENTS:** Corrosive

### AIR TRANSPORTATION

**PROPER SHIPPING NAME:** Corrosive Liquid, Basic, Inorganic, N.O.S., (Sodium Hydroxide)

**HAZARD CLASS:** 8

**PACKING GROUP:** III

**ID NUMBER:** UN 3266

**LABEL STATEMENTS:** Corrosive

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All Chemicals are listed

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** None

**311/312 HAZARD CATEGORIES:**

**313 REPORTABLE INGREDIENTS**

**STATE REGULATIONS:**

**INTERNATIONAL REGULATIONS:**

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## SECTION 16: OTHER INFORMATION

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