

SAFETY DATA SHEET

REVISION DATE: 12/01/2016

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: QwikBright-FT Outdoor Coil Cleaner
USE: HVAC Condenser Coil Cleaner

DESCRIPTION: Foaming Cleaner

MANUFACTURER: Mainstream Engineering Corporation

200 Yellow Place

Rockledge, Florida 32955

INFORMATION TELEPHONE: 321-631-3550 **EMERGENCY TELEPHONE:** 800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS):

Corrosive to Metals (Category 1), H290 Skin irritation/damage (Category 1), H314 Eye irritation/damage (Category 1), H318

HAZARD STATEMENT(S):

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

PICTOGRAM(S):



SIGNAL WORD: Warning

PRECAUTIONARY STATEMENT(S):

P102 Keep out of reach of children. P103 Read label before use. P234 Keep only in original container. P260 Do not breathe mist/vapors/spray.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves/eye protection/face

P301+330+331

IF SWALLOWED: Rinse mouth. Do NOT induce $\,$

vomiting.

protection.

P303+361+353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower

P304+340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P362 + 364

Take off contaminated clothing and wash before reuse.

P405 Store locked up

P501 Dispose of contents/container in accordance with local and federal regulations.

HAZARDS NOT OTHERWISE CLASSIFIED BY GHS: none

SECTION 3 - PRODUCT COMPOSITION INFORMATION

COMPONENT	CAS#	AMOUNT
Sodium Hydroxide	1310-73-2	15-30%
Sodium Carbonate	497-19-8	1-3%
Sodium Gluconate	527-07-1	1-3%
Surfactant*	Proprietary	0.5%
Blue Dye	Proprietary	<0.1%



SECTION 4 - EMERGENCY & FIRST-AID PROCEDURES

EYE: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately, preferably from an ophthalmologist.

SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Wash clothing before reuse.

INGESTION: Seek medical attention from a physician, medical facility, or poison control center. Do not induce vomiting unless directed to by a medical professional. If individual is drowsy or unconscious, do not give anything by mouth.

<u>INHALATION</u>: If overcome by vapor move victim to fresh air. If person is not breathing, call 911 or an ambulance; provide artificial respiration, if possible. Call a physician for further treatment advice.

NOTICE TO PHYSICIANS: The presence of any and all possible hazardous materials is outlined in Section 3. Skin contact, eye contact, ingestion, and inhalation should be treated as exposures to strongly alkaline (sodium hydroxide) solutions.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use CO₂ (Carbon Dioxide), dry chemical, or extinguishing foams. Use of water should be only to cool fire-exposed containers and personnel. However, the direct use of a water jet may serve to spread or intensify the fire.

HAZARDOUS DECOMPOSITION PRODUCTS: Although the material itself is nonflammable and nontoxic, the reaction of sodium hydroxide with some metals can result in the generation of hydrogen gas. Oxides of carbon.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product can react with some metals to generate hydrogen gas.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear full protective gear, including self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND

EMERGENCY PROCEDURES: Avoid inhalation of vapors/mist and make sure area is well ventilated. Avoid getting material in eyes or mouth, or prolonged exposure to skin. Thus, protective eyewear and gloves are recommended. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL PRECAUTIONS: Prevent release of unused product to the environment if possible. Avoid discharge to natural waters or sewers.

MATERIALS FOR CONTAINMENT AND CLEAN-UP: Spills should be contained immediately; when necessary, use an inert adsorbent material (e.g., vermiculite or sand). Collected liquid waste/residues can be diluted with water, and then neutralized with a dilute acid, such as acetic, hydrochloric, or sulfuric acid.

Do not use aluminum tools or containers to collect or store waste product.

Transfer liquid and contaminated solid waste to containers suitable for recovery or disposal in accordance with federal and local regulations.

REFERENCE TO OTHER SECTIONS: For additional disposal directions and reporting requirements, please refer to Section 13.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Use good industrial hygiene practices when handling this material. Use with safety glasses. Wash thoroughly and immediately after handling or wear gloves. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from children.

STORAGE: Store only in the original container. Large quantities should be stored in a container with a corrosive resistant inner liner. Store in a cool, dry location, but protect from freezing conditions. Keep container tightly closed. Maintain adequate ventilation.

<u>SPECIAL STORAGE CONSIDERATIONS</u>: Store containers away from incompatible materials (*i.e.*, acids and reactive metals such as aluminum).

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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION MEASURES

EXPOSURE LIMITS:

For the component, sodium hydroxide:

ACGIH TLV 2 mg/m³ (Ceiling) OSHA PEL 2 mg/m³ (Ceiling)

ENGINEERING CONTROLS: Handle product in accordance with good industrial hygiene and safety practice. Use with adequate general and local exhaust ventilation in order to maintain airborne levels below recommended exposure limits.

<u>PERSONAL PROTECTIVE EQUIPMENT</u>: Please wear appropriate person protective equipment for handling of this product as indicated below.

EYE PROTECTION: Chemical splash goggles are advised. **SKIN PROTECTION:** Use gloves and appropriate clothing to minimize dermal exposure. Recommended materials are latex, neoprene, and nitrile.

RESPIRATORY PROTECTION: Avoid breathing mists or vapors. If workplace exposure limits are expected to be exceeded, a NIOSH/MSHA approved air supplied respirator is advised, or a positive pressure self-contained breathing apparatus (SCBA).

SECTION 9 - PHYSICAL AND CHEMICAL DATA

APPEARANCE: Clear, Blue liquid

ODOR: None

ODOR THRESHHOLD:No data availablepH:14 (Concentrate)FLASH POINT:No data availableAUTOIGNITION TEMPERATURE:No data availableFLAMMABILITY:Not flammableEXPLOSION LIMITS:No data available

MELTING POINT (Pour Point): > 25 °F

BOILING POINT (760 mm Hg): > 200 °F

VAPOR PRESSURE: Same as water

VAPOR DENSITY (AIR = 1): Same as water

SPECIFIC GRAVITY (WATER = 1): 1.2

SOLUBILITY: Soluble with water

PARTITION COEFFICIENT: No data available

(N-OCTANOL/WATER)

DECOMPOSITION TEMPERATURE: No data available **VISCOSITY:** No data available

VOC CONTENT: 0% **EVAPORATION RATE:** > 1

(N-BUTYL ACETATE = 1)

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY: Reacts strongly with acids and certain metals. **CHEMICAL STABILITY:** Stable when handled or stored under the recommended conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: This product should be considered strongly basic (i.e., exhibits a high pH). Contact with certain metals (e.g., aluminum, magnesium, tin, zinc) will elicit a strong reaction and generate hydrogen gas.

<u>HAZARDOUS POLYMERIZATION</u>: Product will not undergo hazardous polymerization.

<u>CHEMICAL INCOMPATIBILITY</u>: Strong acids, halogenated organic compounds, Nitro group-containing organic compounds (*e.g.*, nitrobenzene), reactive metals, sugars.

<u>HAZARDOUS DECOMPOSITION PRODUCTS</u>: Alkali metal oxides, oxides of carbon. Reactions with certain metals can generate flammable hydrogen gas.

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>PRIMARY ROUTES OF ENTRY</u>: Skin contact, eye contact, ingestion, and inhalation.

INFORMATION ON TOXICOLOGICAL EFFECTS

<u>ACUTE SYMPTOMS</u>: (Mild) Irritation of the eyes, skin, intestinal tract and respiratory systems. (Severe) burns to the eyes, skin, and esophagus/upper respiratory tract.

Eye: Exposure to vapors or mist can cause severe irritation or burns. Prolonged or severe exposures can cause burns that may result in permanent eye damage.

Skin: Exposure to mist or liquid can cause severe burns. **Ingestion:** Exposure can lead to damage of the digestive tract.

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Inhalation: Depending on the exposure conditions, the response can be as mild as irritation, or as severe as to result in damage to the upper respiratory tract.

CHRONIC EFFECTS:

<u>MUTAGENICITY</u>: No evidence of a mutagenic effect. <u>TERATOGENICITY</u>: No evidence of a teratogenic effect (birth defect).

SENSITIZATION: No evidence of a sensitization effect. **REPRODUCTIVE:** No evidence of negative reproductive effects.

<u>CHRONIC SYMPTOMS</u>: Prolonged exposures to the concentrate or diluted product can worsen the severity of the response.

<u>CARCINOGENICITY</u>: None of the intentional ingredients on this product are listed as carcinogenic by NTP, IARC or OSHA.

SECTION 12 - ECOLOGICAL INFORMATION

TOXICITY:

Toxicity to fish, sodium hydroxide

LC50 - Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h

LC50 - Oncorhynchus mykiss (rainbow trout) 45.4 mg/l - 96 h

Toxicity to daphnia and other aquatic, sodium hydroxide

EC50 - Daphnia (water flea) - 40.38 mg/l - 48 h
PERSISTENCE AND DEGRADABILITY: No data available

BIOACCUMULATION: No data available

SOIL TO GROUNDWATER MOBILITY: No data available

OTHER ADVERSE EFFECTS: No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

<u>DISPOSAL METHODS</u>: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer to assure compliance.

<u>SPECIAL CONSIDERATIONS FOR DISPOSAL</u>: Emptied containers may still retain product residue and therefore should be disposed of as hazardous waste.

SECTION 14 - TRANSPORT INFORMATION

DOT (US):

UN NUMBER: UN3266

PROPER SHIPPING NAME: Outdoor Coil Cleaner,

Consumer Quantity

TRANSPORT HAZARD CLASSES: Corrosive liquid, basic,

inorganic, N.O.S. (contains sodium hydroxide),

CLASS: 8

PACKING GROUP: II

SECTION 15 - REGULATORY INFORMATION

U.S. Toxic Substances Control Act: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

<u>SARA Section:</u> This product contains no ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372.

State Right to Know

Sodium hydroxide (CAS 1310-73-2)

is listed as a hazardous substance and is on the Right to Know List of ingredients for the states of Illinois, Massachusetts, Minnesota, New Jersey, New York, Pennsylvania, Rhode Island.

SARA 311/312 Hazards

Acute Health Hazard

Chronic Health Hazard

<u>California's Proposition 65:</u> This product does not contain any materials on the Proposition 65 List of Chemicals Known to Cause Cancer or exhibit Reproductive Toxicity.

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SECTION 16 - OTHER INFORMATION

HMIS RATING:

Health hazard: 3 Flammability: 0 Physical Hazard: 1 Personal Protection: I

The information contained herein is believed to be accurate and is offered in good faith. The above information is, in part, based on material safety data sheets supplied by the vendors of the raw materials used in this product. Because product use is beyond our control, no warranty is given, expressed, or implied. Mainstream Engineering Corporation cannot assume any liability for the use of information contained herein or from damage resulting from handling or contact with the above product. To determine applicability or effect of any law or regulation with respect to the product, users should consult a legal advisor or appropriate governmental agency.

PREPARATION INFORMATION

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