

SAFETY DATA SHEET

REVISION DATE: 04/30/2015

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: QwikClean Foaming Coil Cleaner

USE: HVAC Evaporator Coil Cleaner

DESCRIPTION: Foaming Aerosol 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):

Flammable Aerosol (Category 2), H223

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

HAZARD STATEMENT(S):

- H223 Flammable aerosol
- H229 Pressurized container: may burst if heated
- H241 Heating may cause a fire or explosion
- H305 May be harmful if swallowed and enters airways
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

PICTOGRAM(S):



SIGNAL WORD: Warning

PRECAUTIONARY STATEMENT(S):

- P102 Keep out of reach of children.
- P103 Read label before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.

- P261 Avoid breathing mist/vapors/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/eye protection/face protection.
- P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P301+312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332 + P313 If skin irritation or a rash occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P362 + 364 Take off contaminated clothing and wash before reuse.
- 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
2-Butoxyethanol	111-76-2	1-5%
Ethoxy diglycol	111-90-0	1-5%
Other*	-	Proprietary
Butane	106-97-8	Proprietary
Propane	74-98-6	Proprietary

NOTE: Because this product contains butane, it may also contain *isobutane* (CAS# 75-28-5). Hazardous components, according to OSHA, are listed when present at 1.0% or greater; carcinogens are listed when present at 0.1% or greater.



* TRADE SECRET - PROPRIETARY FORMULA. Specific chemical identities are withheld as a trade secret under the provisions of OSHA hazard communication standard 29 CFR 1910.1200.

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.

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.

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

NOTICE TO PHYSICIANS: No additional measures are noted.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use CO₂ (Carbon Dioxide), dry chemical, or water fog.

HAZARDOUS DECOMPOSITION PRODUCTS: No hazardous decomposition products are anticipated.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product is an aerosol product for which Flame Projection is 0 in. However, temperatures above 120 °F may cause the pressurized cans to burst.

SPECIAL FIRE FIGHTING PROCEDURES: To avoid bursting of cans, a water spray should be used to cool cans in the vicinity of the fire or excessive heat.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: 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. Product may make floors slippery.

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

MATERIALS FOR CONTAINMENT AND CLEAN-UP: Spills should be contained immediately using an inert adsorbent material (e.g., sand). The use of water to flush away large spills can result in additional gelling or foaming. 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 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 in a cool, dry location. Keep container tightly closed. Maintain adequate ventilation.

SPECIAL STORAGE CONSIDERATIONS: Store cans away from heat, sparks, flame, and other sources of ignition.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION MEASURES

EXPOSURE LIMITS:

For the component, 2-butoxyethanol:

ACGIH	TLV	20 PPM (Skin)
OSHA	PEL	50 PPM (Skin)

For the component, butane:

ACGIH	TLV	800 PPM
-------	-----	---------

For the component, propane:

ACGIH	TLV	2500 PPM
OSHA	PEL	1000 PPM

ENGINEERING CONTROLS: Handle product in accordance with good industrial hygiene and safety practice. Use with adequate general and local exhaust ventilation. When using indoors, keep windows and doors open until fumes dissipate. Wash thoroughly after possible contact with this material.

PERSONAL PROTECTIVE EQUIPMENT: 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 to minimize dermal exposure.

RESPIRATORY PROTECTION: Normal use of this product should not require special protective measures. If workplace exposure limits are expected to be exceeded, a NIOSH/MSHA approved air supplied respirator is advised.

SECTION 9 - PHYSICAL AND CHEMICAL DATA

APPEARANCE:	Clear, yellow liquid
ODOR:	Slight citrus odor
ODOR THRESHHOLD:	No data available
pH:	11.7
FLASH POINT:	No data available
AUTOIGNITION TEMPERATURE:	No data available
FLAMMABILITY:	Slightly Flammable (2)
EXPLOSION LIMITS:	No data available
MELTING POINT:	No data available
BOILING POINT (760 mm Hg):	~100 °C (212 °F)
VAPOR PRESSURE:	No data available
VAPOR DENSITY (AIR = 1):	No data available
SPECIFIC GRAVITY (WATER = 1):	1.006
SOLUBILITY:	Soluble with water
PARTITION COEFFICIENT: (N-OCTANOL/WATER)	No data available
DECOMPOSITION TEMPERATURE:	No data available
VISCOSITY:	No data available
VOC CONTENT:	9.1%
EVAPORATION RATE: (N-BUTYL ACETATE = 1)	> 1

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY: No data available.

CHEMICAL STABILITY: Stable when handled or stored under the recommended conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Unexpected reactions can occur with exposure to flame, heat, and strong oxidizing materials. When used under the recommended conditions, this material is not characterized as caustic, however, the product should be considered strongly basic (*i.e.*, exhibits a high pH).

HAZARDOUS POLYMERIZATION: Product will not undergo hazardous polymerization

CHEMICAL INCOMPATIBILITY: Solution is strongly basic and should be kept from strong oxidizers and from strongly acidic materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Product does not produce hazardous decomposition products. Thermal decomposition will produce oxides of carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

PRIMARY ROUTES OF ENTRY: Skin contact, eye contact, and inhalation.

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE SYMPTOMS: Eye irritation, skin irritation, respiratory Irritation.

Eye: Exposure to vapors or mist can cause irritation. Direct exposure to liquid product can cause serious irritation, redness, and pain.

Skin: Prolonged contact may cause skin irritation.

Ingestion: Ingestion is not expected to be a likely route of entry. In case of accidental ingestion: If conscious, wash out mouth with water; if the individual is drowsy or unconscious, do not give anything by mouth. Do not induce vomiting unless directed to by a physician.

Inhalation: Concentrated vapor or mist may cause headaches, nausea and dizziness.

DELAYED EFFECTS: No data available

CHRONIC EFFECTS:

MUTAGENICITY: No evidence of a mutagenic effect.

TERATOGENICITY: No evidence of a teratogenic effect (birth defect).

SENSITIZATION: No evidence of a sensitization effect.

REPRODUCTIVE: No evidence of negative reproductive effects.

CHRONIC SYMPTOMS: None

CARCINOGENICITY: Contains less than 1% EDTA.

Overexposure to EDTA may affect the respiratory track and kidneys. None of the intentional ingredients on this product are listed as carcinogenic by NTP, IARC or OSHA.

SECTION 12 - ECOLOGICAL INFORMATION

TOXICITY: No data available.

PERSISTENCE AND DEGRADABILITY: No data available

BIOACCUMULATION: No data available

SOIL TO GROUNDWATER MOBILITY: No data available

OTHER ADVERSE EFFECTS: No data available



200 Yellow Place • Rockledge, FL 32955

PH: (321) 631-3550 • FAX: (321) 631-3552

E-mail: info@mainstream-engr.com

SECTION 13 – DISPOSAL CONSIDERATIONS

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

SPECIAL CONSIDERATIONS FOR DISPOSAL: Do not puncture or incinerate container, even when assumed empty.

SECTION 14 – TRANSPORT INFORMATION

DOT (US):

UN NUMBER: UN1950

PROPER SHIPPING NAME: Limited Quantity – Aerosols, flammable

TRANSPORT HAZARD CLASSES: Flammable Gas

CLASS: 2.1

PACKING GROUP: II

Per 49 CFR Part 173.306(a)(3), this product qualifies for a limited quantity exception.

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

SARA Section: This product contains ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372. This product contains *ethoxy diglycol*, and therefore may also contain *2-ethoxyethanol*.

Ingredient(s) - U.S. Regulatory Information

2-BUTOXYETHANOL 111-76-2
ETHOXY DIGLYCOL 111-90-0

SARA 311/312 Hazards

Acute Health Hazard

California's Proposition 65: This product contains less than 0.1% of ethylene glycol monoethyl ether (2-ethoxyethanol). This compound is known to the State of California to cause birth defects or other reproductive harm.

SECTION 16 – OTHER INFORMATION

HMIS RATING:

Health hazard: 1
Flammability: 2
Physical Hazard: 1
Personal Protection: B

NFPA RATING:

Health: 2
Flammability: 1
Reactivity: 1

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

Mainstream Engineering Corporation
200 Yellow Place | Rockledge, FL 32955
Phone (321) 631-3550 | Fax: (321) 631-3552

Version: 1
Revision Date: 04/30/2015