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MATERIAL SAFETY DATA SHEET

PREPARATION DATE: 02/27/2008
REVISION DATE: 06/21/2011 REV. 1

SECTION 1 - PRODUCT & COMPANY INFORMATION

PRODUCT NAME: Qwik System Flush
PRODUCT NO.: QT1100
DESCRIPTION: AC & Refrigeration System Flush
APPEARANCE: Clear liquid in aerosol can

MANUFACTURER: Mainstream Engineering Corp.
200 Yellow Place
Rockledge, Florida 32955

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

SECTION 2 - PRODUCT COMPOSITION INFORMATION

COMPONENT	% BY WEIGHT
Actives	
Flushing Agent*	100.0%

* 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 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Liquid and gas under pressure. Aerosol spray can cause suffocation or frostbite. Irritating to eyes, skin, and respiratory system. May be harmful if inhaled.

POTENTIAL HEALTH EFFECTS:

EYE: Causes eye irritation.

INGESTION: May be harmful if swallowed or aspirated into the lungs. May cause irritation of gastrointestinal tract, liver, and kidneys. Do not induce vomiting.

INHALATION: May be harmful if inhaled. Causes irritation to the nose, throat, and respiratory system. In confined or poorly ventilated areas where the vapor concentration is very high, vapors can rapidly accumulate and lead to overexposure. Symptoms of overexposure may include headache, nausea, vomiting, drowsiness, dizziness, loss of co-ordination, coughing, and shortness of breath.

SKIN: Causes skin irritation. May be harmful if absorbed through skin. May cause frostbite.

OTHER HEALTH EFFECTS: Increased susceptibility to any effects may be observed in persons with pre-existing disease of the central nervous system, cardiovascular system, skin or eyes.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, skin contact, eye contact.

SECTION 4 - EFFECTS OF OVEREXPOSURE

Prolonged skin contact may cause drying and cracking. Ingestion or inhalation of high concentrations of vapor is harmful and may cause central nervous system depression, anesthesia, heart irregularities, unconsciousness, disorientation or death. Intentional misuse or deliberate inhalation may cause death without warning. Toxic effects on the liver or lung may occur at doses causing anesthesia. Consult a physician. Repeated inhalation of high concentrations may cause lung, liver, kidney, urinary, blood, bone marrow, heart, eye, central nervous system, gastrointestinal, reproductive, developmental and fertility effects.

SECTION 5 - EMERGENCY & FIRST-AID PROCEDURES

SKIN: Immediately wash area with soap and water.

Remove contaminated clothing and wash. If frostbite occurs, flush affected areas with lukewarm water. Do not use hot water. Call a physician.

EYES: Immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart. Call a physician.

INGESTION: In case of accidental ingestion, give large amounts of water provided person is conscious. Do not induce vomiting. Call a physician.

INHALATION: Immediately remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SECTION 6 - PHYSICAL AND CHEMICAL DATA

BOILING POINT (760 mm Hg): 56–70°C
MELTING POINT: N/A
SPECIFIC GRAVITY (WATER = 1): 1.29 g/mL
PERCENT VOLATILES: 100%



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APPEARANCE: Colorless liquid
ODOR: Mild

SECTION 7 - REACTIVITY DATA

STABILITY: Stable under ordinary conditions of use and storage.
HAZARDOUS DECOMPOSITION: Decomposition products are hazardous. Can be decomposed by temperatures (open flame or glowing metal surface) forming halogen acids, carbon monoxide, carbon dioxide and possibly carbonyl halides.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY: Avoid contact with strong bases, oxidizing agents, heat, or flame. Avoid contact with reactive metals especially at high temperature. Avoid alkali, alkaline earth metals, and molten salts.
CONDITIONS TO AVOID: Keep away from heat, sparks, and flames

SECTION 8 - FIRE AND EXPLOSION INFORMATION

FLAMMABILITY: Non-Flammable
AUTOIGNITION TEMPERATURE: No Data
EXTINGUISHING MEDIA: Use what is appropriate for surrounding fire, preferably dry chemical, carbon dioxide, foam, or water spray.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus in positive pressure mode with confined face piece.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Never use welding or cutting torch on or near pressurized container. Emits toxic and corrosive fumes under fire conditions.

SECTION 9 - HANDLING, STORAGE, AND DISPOSAL

HANDLING: Avoid prolonged or repeated breathing of vapors. Avoid liquid contact with eyes and skin. Avoid heat, sparks, and flame. Use in a well ventilated area. Wash after handling.
STORAGE: Store in a cool, dry location. Do not store near heat, flame, or strong oxidants. Maintain adequate ventilation. Keep away from children.
SPILL AND LEAK PROCEDURES: Evacuate area. Ventilate area using forced ventilation, especially in lower enclosed places where heavy vapors might collect. Remove sources of ignition. Absorb spill with dry chemical absorbent (vermiculite), then place in chemical waste container. Do not flush to sewer or stream. May require excavation of contaminated soil.

DISPOSAL: Place in covered hazardous chemical waste containers outdoors, away from open flames and remove to a permitted waste disposal facility. Do not flush to sewer. Dispose of in accordance with all federal, state & local regulations.

SECTION 10 - EXPOSURE CONTROLS / PPE

PERSONAL PROTECTIVE EQUIPMENT:
Respiratory protection: Use adequate ventilation and NIOSH/MSHA approved air respirators in case of emergency. Use respirator if ventilation is not sufficient.
Eye: Use chemical safety goggles.
Clothing: Chemical resistant gloves, apron. Do not use natural rubber gloves.

SECTION 11 - TOXICOLOGICAL INFORMATION

LD50, LC50, CARDIAC SENSITIZATION: No Data.
CANCER INFORMATION: No components listed as carcinogens by the International Agency for Research on Cancer, the National Toxicology Program, the Occupational Safety and Health Administration or any other organization.
REPRODUCTIVE EFFECTS: Animal data show slight fetotoxicity but only at exposure levels producing other toxic effects in the adult animal. Animal data also show sterility or other reproductive effects may occur.
ECOTOXICITY: No Data.

SECTION 12 - ADDITIONAL INFORMATION

DOT SHIPPING CLASS: Hazard Class: 2.2 (non-flammable)

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 [29 CFR 1910.1200 (d)(5)(ii)]. 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.