

200 Yellow Place · Rockledge, FL 32955

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## MATERIAL SAFETY DATA SHEET

**PREPARATION DATE:** 10/13/95  
**REVISION DATE:** 01/12/00 REV. 3

### SECTION 1 - PRODUCT & COMPANY INFORMATION

**PRODUCT NAME:** QwikShot Acid Flush  
**PRODUCT NO.:** QT2500  
**DESCRIPTION:** oil additive  
**USE:** acid removal  
**APPEARANCE:** slight amber color, characteristic odor

**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

<u>COMPONENT</u>	<u>CHEMICAL NAME</u>	<u>% BY WEIGHT</u>
CARRIER FLUID	*	60-65
ADDITIVES	*	35-40

\* 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

**EXPOSURE LIMITS:** PEL 400 PPM 200 PPM (SKIN)  
TLV 400 PPM 200 PPM (SKIN)

#### POTENTIAL HEALTH EFFECTS:

**EYE:** Exposure causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**SKIN:** Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin.

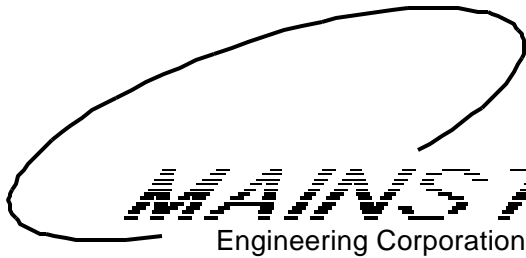
Symptoms may include redness, burning, drying and cracking, skin burns, and dermatitis. Skin absorption is possible, and may contribute to symptoms of toxicity from other routes of exposure.

**SWALLOWING:** Single dose oral toxicity is moderate. Swallowing may be harmful.

**TARGET ORGANS:** This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, heart damage, and pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain. Exposure to lethal concentrations of ethanol has been shown to cause damage to organs including liver, kidneys, pancreas, heart, lungs, and brain. Although this rarely occurs, survivors of severe intoxication may suffer from permanent neurological damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans: central nervous system damage, brain damage, testis damage, liver damage, pancreatic damage, anemia, kidney damage, lung damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans, and may aggravate pre-existing disorders of these organs: visual impairment, liver damage.

**DEVELOPMENTAL INFORMATION:** While there is sufficient evidence that methanol causes birth defects in experimental animals, the relevance of these findings to humans is uncertain because of differences in metabolism and toxicity of methanol between humans and non-primates.

**CANCER INFORMATION:** IARC (international agency for research on cancer) has determined that exposure to ethanol through chronic human consumption of alcoholic beverages can cause cancer. Alcoholic beverage consumption has also been associated with birth defects, brain damage, heart damage, pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain.



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**OTHER HEALTH EFFECTS:** No data.

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

blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis

#### SECTION 4 - EFFECTS OF OVEREXPOSURE

Gastrointestinal irritation (nausea, vomiting, diarrhea), irritation (nose, throat, respiratory tract), cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), leg cramps, involuntary eye movement, abdominal and low back pain, respiratory depression, blurred vision, shortness of breath, impaired coordination, confusion, irregular heartbeat, cyanosis (characterized by bluish discoloration of the skin and nails), anesthesia, visual impairment (including blindness), respiratory failure, coma, and death.

#### SECTION 6 - PHYSICAL AND CHEMICAL DATA

**BOILING POINT (760 mm Hg):** 82 – 250 °C  
**VAPOR PRESSURE:** 16 mm Hg (20 °C)  
**VAPOR DENSITY (AIR = 1):** ND  
**SPECIFIC GRAVITY (WATER = 1):** 0.91  
**PERCENT VOLATILES:** < 40%  
**EVAPORATION RATE:** ND  
**APPEARANCE:** slight amber color  
**ODOR:** characteristic odor

#### SECTION 5 - EMERGENCY & FIRST-AID PROCEDURES

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

**EYES:** If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

**INGESTION:** Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If individual is conscious and alert, induce vomiting by giving syrup of ipecac or by gently placing two fingers at the back of the throat. If possible, do not leave individual unattended.

**INHALATION:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention. Keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

**NOTICE TO PHYSICIANS:** This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances, and

#### SECTION 7 - REACTIVITY DATA

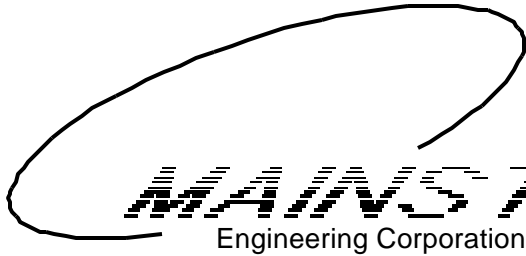
**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Has not been reported.  
**INCOMPATIBILITY:** Avoid contact with strong oxidizing agents, heat, flame.

#### SECTION 8 - FIRE AND EXPLOSION INFORMATION

**FLASH POINT:** 54 °F (Setaflash method)  
**FLAMMABILITY LIMITS:** Lower – 3%, Upper – 26%  
**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, foam.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Toxic fumes of carbon dioxide and carbon monoxide.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus in positive pressure mode with confined facepiece.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Never use welding or cutting torch on or near contents because product can ignite explosively.

#### SECTION 9 - HANDLING, STORAGE, AND DISPOSAL

**HANDLING:** Avoid prolonged or repeated breathing of vapors, mists, fumes. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.



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Use in a well ventilated area. If mist is formed or exposure limit of product is exceeded, use of a NIOSH/MSHA approved respirator is advised. Provide sufficient mechanical, general, and/or local exhaust to maintain exposure below TLV.

Wear resistant gloves; safety glasses or splash goggles are advised. Do not take any food or drink, or handle tobacco products while in contact with this product

**STORAGE:** Store in a cool, dry location. Keep container tightly closed. Do not store near heat, flame, strong oxidants. Maintain adequate ventilation.

**SPILL AND LEAK PROCEDURES:** Do not permit product to enter streams, sewers, or other waterways. Eliminate all ignition sources. Dike spill and eliminate leak. Absorb with vermiculite or other absorbent. Transfer absorbent to closed containers for disposal.

**DISPOSAL:** Dispose of in accordance with all local, state, and federal regulations.

#### **SECTION 10 - ADDITIONAL INFORMATION**

**DOT SHIPPING CLASS:** 49 CFR 173.4 (Exemptions for small quantities.

**EPA TSCA:** All ingredients listed on the TSCA Inventory.

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.