

SECTION I - IDENTIFICATION

PRODUCT NAME: High Tech Acid Cleaner
PRODUCT CODE: 66040
PRODUCT USE: Foaming Acid Condenser Cleaner
COMPANY NAME: QuestVapco Corporation
COMPANY ADDRESS: PO Box 624 Brenham, TX 77834
COMPANY PHONE: 1-800-231-0454
EMERGENCY PHONE: 800-255-3924

SECTION II – HAZARDS IDENTIFICATION

CLASSIFICATION: Acute Toxicity Category 3 (Oral / Inhalation / Dermal)

Skin Corrosive: Category 1B

Specific Target Organ Toxicity (Single Exposure): Category 3

Corrosive to Metals

Eye Damage: Category 1

HAZARD STATEMENT(S): DANGER: Toxic if swallowed, if inhaled, and in contact with skin,. Causes Severe skin burns and eye damage. May cause respiratory irritation. May be corrosive to metals.

This product contains the following percentage of chemicals of unknown toxicity: 1%

PRECAUTIONARY STATEMENTS: Store in a well-ventilated place. Wear protective gloves, eye protection, face shield, and protective clothing. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Take off immediately all contaminated clothing and wash it before reuse. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical advice or attention.



SYMBOL:

HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Hydrofluoric Acid	7664-39-3	5-10%

SECTION IV - FIRST AID MEASURES

EYES: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

INGESTION: If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

INHALATION: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

SKIN: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

ACUTE HEALTH HAZARDS: Causes severe burns. Liver and kidney injuries may occur.

CHRONIC HEALTH HAZARDS: Possible liver, Kidney, blood damage, dental or skeletal fluorosis

NOTE TO PHYSICIAN: The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage.

SECTION V – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use appropriate media for surrounding fire.

Safety Data Sheet

UNSUITABLE EXTINGUISHING MEDIA: N/A

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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Non-combustible. Water spray may be used to keep fire exposed containers cool.

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.

SPILL: Absorb with non-combustible material like vermiculite, sand or earth. place waste in proper containers for waste disposal.

WASTE DISPOSAL: 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 STATUS: Product should be fully characterized prior to disposal (40 CFR 261).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry area away from extremes of temperature. Keep container tightly sealed when not in use. Store locked up.

INCOMPATIBILITY: Strong alkalis, strong oxidizing agents.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Hydrofluoric Acid	3 ppm	2 ppm

ENGINEERING CONTROLS / VENTILATION: Provide adequate ventilation to keep vapor concentration below TLV.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection if exposure limits are exceeded.

PERSONAL PROTECTIVE EQUIPMENT: Eye protection, Face shield, Protective gloves, and Synthetic Apron

ADDITIONAL MEASURES: Wash hands and clothing in contact with product after use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Cloudy to Clear Pink Liquid

ODOR: Acid odor

ODOR THRESHOLD: N/D

BOILING POINT: N/D

FREEZING POINT: < 32°F (0°C)

FLAMMABILITY: Not considered a flammable liquid by OSHA (29CFR 1910.1200)

FLASH POINT: N/D

AUTOIGNITION TEMPERATURE: N/D

LOWER FLAMMABILITY LIMIT: N/D

UPPER FLAMMABILITY LIMIT: N/D

VAPOR PRESSURE (mm Hg): 23.8 mmHg @ 77°F (25°C)

VAPOR DENSITY (AIR=1): 1

EVAPORATION RATE: < 0.8 (Slow)

SPECIFIC GRAVITY (H2O=1): 1.02 @ 77°F (25°C)

pH: 1

SOLIDS (%): N/D

SOLUBILITY IN WATER: 100%

PARTITION COEFFICIENT: n-OCTANOL/WATER (K_{ow}): N/D

VOLATILITY INCLUDING WATER (%): 96%

VOLATILE ORGANIC COMPOUNDS (VOC): <1%

DIELECTRIC STRENGTH (Volts): N/A

DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D

SECTION X – STABILITY AND REACTIVITY DATA

REACTIVITY: Chemically active metals and bases.

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CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Chlorine liberating material. Do not mix with bases, ammonia or other cleaning compounds.

INCOMPATIBILITY: Strong alkalis, strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of Carbon and Acid mist.

POSSIBLE HAZARDOUS REACTIONS: Will not occur

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Hydrofluoric Acid (7664-39-3) LD₁₀₀ (Oral, Guinea Pig) 80 mg/kg (2% solution); LC₅₀ (Inhalation, Rat, 1hr) 850 - 1,070 mg/m³

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

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

INGESTION: Causes gastrointestinal irritation, nausea, vomiting, abdominal cramps.

INHALATION: Causes irritation to the respiratory tract, coughing, shortness of breath.

SKIN: Causes burns to all living tissue.

MEDICAL CONDITION AGGRAVATED: Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over exposure.

ACUTE HEALTH HAZARDS: Causes severe burns. Liver and kidney injuries may occur.

CHRONIC HEALTH HAZARDS: Possible liver, Kidney, blood damage, dental or skeletal fluorosis

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

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Hydrofluoric Acid (7664-39-3) LC₅₀ 96h (Salmo gairdneri): 51mg/l EC₅₀ 96h (Mysidopsis): 10.5mg/l

BIODEGRADABILITY: This product is biodegradable.

BIOACCUMULATION: This product is not expected to bioaccumulate.

SOIL MOBILITY: This product is mobile in soil.

OTHER ECOLOGICAL HAZARDS: None Known

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: 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 STATUS: Product should be fully characterized prior to disposal (40 CFR 261).

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Corrosive Liquid, N.O.S.

HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN 1760

PACKAGING GROUP: II

AIR SHIPMENT

PROPER SHIPPING NAME: Corrosive Liquid, N.O.S.

HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN 1760

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Corrosive Liquid, N.O.S.

HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN 1760

ENVIRONMENTAL HAZARDS WATER: N/A

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SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Hydrofluoric Acid (7664-39-3)
Reportable Quantity = 100 lbs

SARA 311/312 HAZARD CATEGORIES: Acute Health, Chronic Health.

SARA 313 REPORTABLE INGREDIENTS: Hydrofluoric Acid - 7664-39-3

STATE REGULATIONS: California Proposition 65: None

INTERNATIONAL REGULATIONS: All components are listed or exempted.

NFPA HEALTH:	3	HMIS HEALTH:	3
NFPA FLAMMABILITY:	0	HMIS FLAMMABILITY:	0
NFPA REACTIVITY:	1	HMIS REACTIVITY:	1
NFPA OTHER:	None	HMIS PROTECTION:	D

SECTION XVI - ADDITIONAL INFORMATION

PREPARATION BY: Jonathon Jarvis

DATE PREPARED: 09/19/2013

REVISION DATE: 10/16/2014

N/A = Not Applicable; N/D = Not Determined

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