

Safety Data Sheet
Liquefire

SECTION I - IDENTIFICATION

PRODUCT NAME: Liquefire
PRODUCT CODE: 6010
PRODUCT USE: Liquid Deicer
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: Eye Irritant: Category 2b
HAZARD STATEMENT(S): WARNING: causes eye irritation.
This product contains the following percentage of chemicals of unknown toxicity: 100%
PRECAUTIONARY STATEMENTS: Wash hands thoroughly after handling. 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.
SYMBOL: N/A
HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Calcium Chloride	10043-52-4	5-10%
Magnesium Chloride	7791-18-6	40-70%

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: Rinse mouth with water. Do not induce vomiting unless directed by medical authority. Seek medical attention if irritation persists.
INHALATION: Move to fresh air. If breathing is difficult or unconscious, administer oxygen. If not breathing administer artificial respiration. Seek medical attention if irritation persists.
SKIN: If on skin: Wash with plenty of water. If skin irritation occurs: get medical attention.
ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision
CHRONIC HEALTH HAZARDS: None known
NOTE TO PHYSICIAN: There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION V – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Water or appropriate for surrounding fire.
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.
HAZARDOUS COMBUSTION PRODUCTS: None Known

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.
SPILL: Floors will become slippery. Avoid walking in product. Ventilate area well. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways. Dispose in accordance with local, state and federal laws.

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WASTE DISPOSAL: Dispose of in accordance with local, State and Federal regulations. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

RCRA STATUS: Not listed as hazardous waste under RCRA, however 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, keep containers tightly closed and dry. Keep out of reach of children and do not store near food, drink, or animal food.

OTHER PRECAUTIONS: Keep out of the reach of children.

INCOMPATIBILITY: Attack aluminum /yellow brass; react wrth sulfuric acid and zinc

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Calcium Chloride	N/A	N/A
Magnesium Chloride	N/A	N/A

ENGINEERING CONTROLS / VENTILATION: Not required

RESPIRATORY PROTECTION: Not required with normal use.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses and chemical resistant gloves

ADDITIONAL MEASURES: Wash hands thoroughly after handling.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear to amber

ODOR: No distinct odor

ODOR THRESHOLD: N/D

BOILING POINT: 252°F (122°C)

FREEZING POINT: N/D

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

FLASH POINT: None

AUTOIGNITION TEMPERATURE: N/D

LOWER FLAMMABILITY LIMIT: N/D

UPPER FLAMMABILITY LIMIT: N/D

VAPOR PRESSURE (mm Hg): N/D

VAPOR DENSITY (AIR=1): > 2

EVAPORATION RATE: > 1

SPECIFIC GRAVITY (H2O=1): 1.334

pH: 5.0-7.0

SOLIDS (%): N/D

SOLUBILITY IN WATER: 100%

PARTITION COEFFICIENT: n-OCTANOL/WATER (Kow): N/D

VOLATILITY INCLUDING WATER (%): <20%

VOLATILE ORGANIC COMPOUNDS (VOC): 0%

DIELECTRIC STRENGTH (Volts): N/A

DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D

SECTION X – STABILITY AND REACTIVITY DATA

REACTIVITY: None Known

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: None known

INCOMPATIBILITY: Attack aluminum /yellow brass; react wrth sulfuric acid and zinc

HAZARDOUS DECOMPOSITION OR BY-PRODUCT: None Known

POSSIBLE HAZARDOUS REACTIONS: Will not occur

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SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Calcium Chloride (10043-52-4) LD₅₀ (Dermal, Rabbit) > 5000 mg/kg; LD₅₀ (Oral, Rat) 900 - 2100 mg/kg

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

EYES: May cause mild burning, irritation, pain, redness, tearing. Can cause mild corneal damage.

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

INHALATION: Mists may be irritating to mucous membranes in the nose, throat, and lungs.

SKIN: May cause irritation, localized defatting, dermatitis, with prolonged or repeated contact.

MEDICAL CONDITION AGGRAVATED: None known

ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision

CHRONIC HEALTH HAZARDS: None known

CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Based largely or completely on data for major component(s), material is practically non-toxic to aquatic organisms on an acute basis (LC₅₀ greater than 100 mg/L in most sensitive species).

BIODEGRADABILITY: Component or components of this product are not 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 local, State and Federal regulations. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

RCRA STATUS: Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Cleaning Compound N.O.S., Non Regulated

HAZARD CLASS/DIVISION: None

UN/NA NUMBER: N/A

PACKAGING GROUP: None

AIR SHIPMENT

PROPER SHIPPING NAME: Cleaning Compound N.O.S., Non Regulated

HAZARD CLASS/DIVISION: None

UN/NA NUMBER: N/A

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Cleaning Compound N.O.S., Non Regulated

HAZARD CLASS/DIVISION: None

UN/NA NUMBER: N/A

ENVIRONMENTAL HAZARDS WATER: N/A

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

SARA 311/312 HAZARD CATEGORIES: None

SARA 313 REPORTABLE INGREDIENTS: None

STATE REGULATIONS: California Proposition 65: None

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INTERNATIONAL REGULATIONS: All components are listed or exempted.

NFPA HEALTH: 1
NFPA FLAMMABILITY: 0
NFPA REACTIVITY: 0
NFPA OTHER: None

HMIS HEALTH: 1
HMIS FLAMMABILITY: 0
HMIS REACTIVITY: 0
HMIS PROTECTION: B

SECTION XVI - ADDITIONAL INFORMATION

PREPARATION BY: Jonathon Jarvis

DATE PREPARED: 1/10/2013

REVISION DATE: 08/12/2014

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

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