

SAFETY DATA SHEET

Q.C.T. With OXYBREAK

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME : Q.C.T. With OXYBREAK
SYNONYMS : Product is a mixture: No synonyms are available.
PRODUCT USE : Moderately Acidic Material
SUPPLIER : HYDRAMASTER CORP.
SUPPLIER'S ADDRESS : 11015 47TH AVE. SE, MUKILTEO, WA 98275
(425) 775-7272
EMERGENCY RESPONSE PHONE NUMBER : PERS: 1-800-633-8253

SECTION 2 – HAZARD IDENTIFICATION

GHS U.S. CLASSIFICATION

ACUTE TOXICITY : H302 Cat 4 Harmful if swallowed.
SKIN IRRITATION : H315 Cat 2 Causes skin irritation.
EYE DAMAGE : H319 Cat 1 Causes serious eye irritation.

LABEL ELEMENTS : **GHS – US HAZARD PICTOGRAMS** The product is classified and labeled according to the Globally Harmonized System (GHS).

HAZARD PICTOGRAMS :



SIGNAL WORD : WARNING

HAZARD STATEMENTS (GHS-US) : H302 Harmful if swallowed.
: H315 Causes skin irritation.
: H319 Causes serious eye irritation.

PRECAUTIONARY STATEMENTS (GHS-US) : P101 If medical advice is needed, have product container or label at hand.
: P102 Keep out of reach of children.
: P103 Read label before use.
: P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.
: P221 Take any precaution to avoid mixing with combustibles.
: P260 Do not breathe dust/fume/gas/mist/vapors/spray.
: P264 Wash skin and contaminated clothing thoroughly after handling.
: P270 Do not eat, drink or smoke when using this product.
: P280 Wear suitable protective gloves/protective clothing/eye protection/face protection.
: P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician 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 occurs: Get medical advice/attention.
: P362 Take off contaminated clothing.
: P405 Store locked up.
: P501 Dispose of contents/container in accordance with local /regional / national / international regulations.

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OSHA HAZARDS : Target Organ Effect (Glycol Ether DPM)
TARGET ORGANS : Kidney, Liver, Nerves (Glycol Ether DPM).
CLASSIFICATION SYSTEM : NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
NFPA RATINGS (SCALE 0-4) : Health = 2, Fire = 1, Reactivity = 0
HMIS RATINGS (SCALE 0-5) : Health = 2, Fire = 1, Reactivity = 0

SECTION 3 – COMPOSITON/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISTIC : Mixtures
DESCRIPTION : Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Hydrogen Peroxide	1-5	7722-84-1	231-633-2	Ox Liq Cat 1, Skin Corr Cat 1A Acute Tox Oral Cat 4, Acute Tox Inhal Cat 4
Dipropylene glycol methyl ether	1-5	34590-94-8	252-104-2	Eye Irrit: Cat 2B
Alcohol Ethoxylate	1-5	68439-46-3	Not Found	Eye Irrit Cat 2B
Aminotrimethylene Phosphonic Acid	0.1-1	6419-19-8	229-146-5	Metal Corr Cat 1, Eye Irrit Cat 2
D-Limonene (Citrus Terpenes)	0.1-1	5989-27-5	227-813-5	Flam Liq Cat 3, Acute Tox Oral Cat 5, Skin Irrit Cat 2, Eye Irrit Cat 2A, Skin Sens Cat 1, Acute Tox Aquatic Cat 1

Irrit. = Irritation, Corr. = Corrosion, Cat. = Category. Ox. = Oxidizing, Liq = Liquid, STOT SE = Specific Target Organ Toxicity Single Exposure, Dam = Damage

SECTION 4 – FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. Show the label where possible.
EYE CONTACT : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediate call a POISON CENTER or doctor/physician.
SKIN CONTACT : Remove contaminated clothing and shoes. Wash affected skin area with soap and water. Delayed skin damage is possible if product is not completely washed off. If irritation persists, get immediate medical attention.
SWALLOWING (INGESTION) : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Never give anything by mouth to an unconscious person. Get immediate medical attention.
INHALATION : Remove to fresh air. If symptoms persist, get immediate medical attention.
OTHER INSTRUCTIONS : Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Water spray, fog, carbon dioxide, foam, dry chemical
EXPLOSION HAZARDS : Product is not explosive.
REACTIVITY (FIRE) : Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosive hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.
SPECIAL INSTRUCTIONS TO FIRE FIGHTERS

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- PRECAUTIONARY MEASURES** : Exercise caution when fighting any chemical fire.
- FIREFIGHTING INSTRUCTIONS** : Use water spray or fog for cooling exposed containers.
- PROTECTION DURING FIREFIGHTING** : Do not enter fire area without proper protective equipment, including respiratory protection.
- HAZARDOUS COMBUSTION PRODUCTS** : Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides. Nitrogen oxides. Carbon oxides (CO, CO₂). Explosive Hydrogen gas.
- OTHER INFORMATION (FIRE)** : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES** : Do not allow product to spread into the environment. Do NOT breathe vapors, mist or spray. Avoid all contact with skin, eyes or clothing. Use appropriate personal protective equipment (PPE). Evacuate unnecessary personnel. Ventilate area.
- ENVIRONMENTAL PRECAUTIONS** : Keep spilled material away from sewage/drainage systems and waterways. This product contains a U.S. EPA Reportable Quantity (RQ) substance. If amounts exceeding the Reportable Quantity are released, notification of the National Response Center (800) 424-8802 is required. See section 15 for more information.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP** : **Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.
Cleaning Up: Clear up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Contact competent authorities after a spill.

SECTION 7 – HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING** : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.
- CONDITIONS FOR SAFE STORAGE** : Store in a dry, cool and well ventilated place. Keep container closed when not in use. Keep/store away from extremely high or low temperatures, direct sunlight, heat and incompatible materials (Strong acid, Strong oxidizers).



SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- TLV (THRESHOLD LIMIT VALUE)** : The TLV in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	OSHA PEL – TWA	ACGIH – TLV	ACGIH – STEL
Hydrogen Peroxide	1 ppm (1.4 mg/m ³)	1 ppm (1.4 mg/m ³)	Not Established
Dipropylene glycol methyl ether	100 ppm, 600mg/m ³	100 ppm	150 ppm
Alcohol Ethoxylate	Not Established	Not Established	Not Established
Aminotrimethylene Phosphonic Acid	Not Established	Not Established	Not Established
D-Limonene (Citrus Terpenes)	Not Established	Not Established	Not Established

- EYE PROTECTION** : Wear chemical splash goggles or face shield.
- SKIN PROTECTION** : Minimize contact with product.

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- RESPIRATORY PROTECTION** : In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air if irritation occurs.
- VENTILATION** : Ensure adequate ventilation.
- ADDITIONAL MEASURES** : Emergency eyewash and safety shower facilities should be available in the immediate work area.
- REQUIRED WORK/HYGIENE** : Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE** : Clear liquid with mild odor
- ODOR** : Mild odor
- ODOR THRESHOLD** : Not available
- PH** : 2.5 ± 0.5
- MELTING POINT/FREEZING POINT** : Not available
- BOILING POINT** : Not available
- FLASHPOINT** : Not applicable
- EVAPORATION RATE** : Not available
- FLAMMABILITY** : Non flammable, Non combustible
- LOWER FLAMMABILITY LIMIT** : Not applicable
- UPPER FLAMMABILITY LIMIT** : Not applicable
- VAPOR PRESSURE** : Not available
- VAPOR DENSITY (AIR=1)** : Not available
- RELATIVE DENSITY** : 1.01
- SOLUBILITY IN WATER** : Soluble in water
- PARTITION COEFFICIENT n-OCTANOL/WATER** : Not available
- AUTOIGNITION TEMPERATURE** : Not available
- DECOMPOSITION TEMPERATURE** : Not available

SECTION 10 – STABILITY AND REACTIVITY

- REACTIVITY** : Sodium Percarbonate rapidly decomposes in water to hydrogen peroxide and sodium carbonate.
- STABILITY** : Stable under normal recommended storage conditions.
- HAZARDOUS CONDITIONS TO AVOID** : Avoid incompatible materials, heat, sparks and flames. Avoid sunlight.
- INCOMPATIBLE MATERIALS** : Acids, bases, salts of heavy metals, reducing agents, organic materials and flammable substances.
- HAZARDOUS DECOMPOSITION PRODUCTS** : Oxygen. Contamination with many substances will cause decomposition. The rate of decomposition increases with temperature increases and may be very vigorous with rapid generation of oxygen and steam.

SECTION 11 – TOXICOLOGICAL INFORMATION

- TOXICOLOGICAL INFORMATION** : **Hydrogen Peroxide**
- EYE EFFECTS** : 35% hydrogen peroxide: Extremely irritating/corrosive (rabbit).
- SKIN EFFECTS** : 35% hydrogen peroxide: Mildly irritating after 4-hour exposure (rabbit).
- ACUTE TOXICITY** : DERMAL LD50: 35% hydrogen peroxide: > 2,000 mg/kg (rabbit) [FMC Study Number: I83-746] ORAL LD50: 35% hydrogen peroxide: 1,193 mg/kg (rat) [FMC Study Number: I83-745] INHALATION LC50: 50% hydrogen peroxide: > 0.17 mg/l (rat) [FMC Study Number: I89-1080],

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TARGET ORGANS	: Eyes, Nose Throat and Lungs.
ACUTE EFFECTS FROM OVER EXPOSURE	: Extremely irritating/corrosive to eyes and gastrointestinal tract. May cause irreversible tissue damage to the eyes including blindness. Inhalation of mist or vapors may be severely irritating to nose, throat and lungs. May cause skin irritation.
CHRONIC EFFECTS FROM OVER EXPOSURE	: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans). The American Conference of Governmental Industrial Hygienists (ACGIH) has concluded that hydrogen peroxide is a 'Confirmed Animal Carcinogen with Unknown Relevance to Humans' (A3).
CARCINOGENICITY	: IARC: Cat 3, NTP: Not listed, OSHA: Not listed, OTHER: ACGIH: Cat A3.
TOXICOLOGICAL INFORMATION	: Dipropylene Glycol Methyl Ether
ACUTE TOXICITY	: LD50 values: Oral LD50: 5152 mg/kg (rat). LC50 dermal and inhalation: Not listed. Eyes: Rabbit: Mild Irritation: 25 hours.
CARCINOGENICITY	: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC, ACGIH, NTP, and OSHA.
TOXICOLOGICAL INFORMATION	: Ethoxylated Alcohol 91-6
ACUTE TOXICITY	: LD50 Oral (rat): 1,378 mg/kg,
INHALATION LC50	: No data available.
DERMAL LD50	: LD50 Dermal (rat): > 5,000 mg/kg.
PRIMARY SKIN IRRITATION	: (Rabbit) Moderate to severely irritating.
PRIMARY EYE IRRITATION	: (Rabbit) Severely irritating.
TOXICOLOGICAL INFORMATION	: Aminotrimethylene Phosphonic acid (ATMP)
ACUTE TOXICITY	: LD50 Oral (Rat): 2910mg/kg, LD50 Dermal (Rabbit): > 6310mg/kg.
CHRONIC EFFECTS ON HUMANS	: Rat 24months: > 500 mg/kg. Conclusion: Practically non toxic.
OTHER TOXIC EFFECTS ON HUMANCs	: Skin and Eyes (Rabbit): Moderate Irritant.
TOXICOLOGICAL INFORMATION	: D-Limonene (Citrus Terpenes)
ACUTE TOXICITY	: LD50 Oral (rat): >5000 mg/kg. LD50 Dermal (rabbit): >5,000 mg/kg, RD50 Inhalation (mice): > 1,000 mg/kg.
IRRITATION	: Prolonged or repeated exposure can cause drying or dermatitis of skin.
BIOACCUMULATION	: No appreciable bio-concentration is expected in the environment.
CARCINOGENICITY	: This product is not classified as a carcinogen by OSHA, IARC, ACGIH or NTP.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	: Hydrogen Peroxide
ECOTOXICOLOGICAL INFORMATION	: Channel catfish 96-hour LC50 = 37.4 mg/L Fathead minnow 96-hour LC50 = 16.4 mg/L Daphnia magna 24-hour EC50 = 7.7 mg/L Daphnia pulex 48-hour LC50 = 2.4 mg/L Freshwater snail 96-hour LC50 = 17.7 mg/L For more information refer to ECETOC "Joint Assessment of Commodity Chemicals No. 22, Hydrogen Peroxide." ISSN-0773-6339, January 1993
CHEMICAL FATE INFORMATION	: Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. Hydrogen peroxide half-life in freshwater ranged from 8 hours to 20 days, in air from 10-20 hrs. and in soils from minutes to hours depending upon microbiological activity and metal contaminants.

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ECOLOGICAL INFORMATION	: Dipropylene Glycol Methyl Ether
ECOTOXICITY (aquatic and terrestrial, where available):	
ACUTE FISH TOXICITY	: LC50 / 96 hours Fathead Minnow - >10,000 mg/L
TOXICITY TO DAPHNIA	: EC50 / 48 hours Water flea - 1,919 mg/L
PERSISTENCE AND DEGRADABILITY	: No data available.
BIOACCUMULATIVE POTENTIAL	: No data available.
ECOLOGICAL INFORMATION	: Ethoylated Alcohol 91-6
ECOTOXICITY	: LC50 Rainbow Trout: 1-10 mg/l, 96hr. Value estimated from tests on similar products. LC50 Fathead Minow: 6 mg/l, 96hr. Value estimated from tests on similar products.
BIODEGRADABILITY	: Readily biodegradable.
PERSISTENCE AND DEGRADABILITY	: No data available.
BIOACCUMULATIVE POTENTIAL	: No data available.
ECOLOGICAL INFORMATION	: Aminotrimethylene Phosphonic Acid (ATMP)
ECOTOXICITY	: Acute LC50 fish (fresh water)14 days: 160mg/L, LC50 Daphnia-Daphnia Magna (fresh water) 48hr: 297 mg/L, LC50 Daphnia (marine water) 48hr: 94mg/L
CHRONIC TOXICITY	: Fish (fresh water) 60 days @ 23mg/L: No observable effect. Daphnia (fresh water) 28 days @ >25mg/L: No observable effect
BIODEGRADATION	: Biodegradable.
TOXICITY OF PRODUCTS OF BIODEGRADATION	: The product and products of biodegradation are not toxic.
ECOLOGICAL INFORMATION	: D-Limonene (Citrus Terpenes)
ECOTOXICITY	: There is no information available at this time for this product. However, a spill may produce significant toxicity to aquatic organisms and ecosystems. Some studies have shown that certain bacteria and fungi have the ability to degrade citrus terpenes, decreasing their toxicity to fish. When spilled, this product may act as an oil, causing a film, sheen, emulsion or sludge at or beneath the surface of a body of water
MOBILITY	: Citrus Terpenes volatilize rapidly.
PERSISTENCE AND DEGRADABILITY	: Readily biodegradable.
BIOACCUMULATIVE POTENTIAL	: Bio-concentration is not expected to occur.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	: This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.
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SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME	: N/A
HAZARD CLASS AND LABEL	: N/A
UN NUMBER	: N/A
PACKAGING GROUP	: N/A

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EPA REPORTABLE QUANTITY (RQ) : N/A
MARINE POLLUTANT : N/A
EMERGENCY RESPONSE GUIDE : N/A

SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN : Not listed
TSC STATUS : The ingredients of this product are listed on TSCA (Toxic Substances Control Act) inventory (40CFR 710.)
SARA SECTION 302 : None
SARA SECTION 311/312 : Chronic health hazard (Glycol Ether DPM).
HAZARD CLASS
SARA SECTION 313 : None
NFPA HEALTH : 2
NFPA FLAMMABILITY : 0
NFPA REACTIVITY : 1

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION : Xi: Irritant.
DSD/DPD RISK (R) PHRASES : R38: Irritating to skin.
R22: Harmful if swallowed.
DSD/DPD SAFETY (S) PHRASES : S1/2: Keep locked up and out of reach of children.
S18: Handle and open containers with care.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accidents or if you feel unwell, seek medical advice immediately. Show label where possible.
S61: Avoid release to the environment.
S64: If swallowed, rinse mouth with water if victim is conscious.



CANADIAN REGULATORY INFORMATION

WHMIS CATEGORY : Class D2B: Materials that cause other toxic effects (TOXIC).



DOMESTIC SUBSTANCES LIST (DSL) : Listed

INGREDIENT DISCLOSURE LIST : Listed, This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all of the information required by the CPR.

SECTION 16 – OTHER INFORMATION

DISCLAIMER : The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Hydramaster Corp. assumes no responsibility

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for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

CERCLA	: Comprehensive Environmental Response, Compensation, and Liability Act.
EINECS	: European Inventory of Existing Commercial Chemical Substances
IMDG	: International Maritime Code for Dangerous Goods
IARC	: International Agency for Research on Cancer
IATA	: International Air Transportation Association
ACGIH	: American Conference of Governmental Industrial Hygienists
NFPA	: National Fire Protection Association (USA)
NTP	: National Toxicology Program
SARA	: Superfund Amendments and Reauthorization Act
TSCA	: Toxic Substances Control Act
HMIS	: Hazardous Materials Identification System (USA)
WHMIS	: Workplace Hazardous Materials Information System
LC50	: Lethal concentration, 50 percent
LD50	: Lethal dose, 50 percent
STOT	: Systemic Target Organ Toxicity
DATE PREPARED	: JAN 12, 2015
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