

Product name ClearView Quat Power**Revision date** 6-02-15**Product ID:** Quat Power**Chemical Name:** Maquat, TC76-50%
Synonyms: Quaternary Ammonium Compound
Chemical Formula: Not Available
CAS Number: Not Available
Product Use: For Control of Algae and Algal Slime Growth in Swimming Pools**Supplier:** Oreq Corporation
42306 Remington Avenue
Temecula, CA 92590
951-296-5076**Emergency Phone#** Chemtrec: 1-800-424-9300**EMERGENCY OVERVIEW
DANGER****GHS CLASSIFICATION**

Physical Hazards	Flammable liquids	Category 3
Health Hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
OSHA defined hazards	Not classified.	

HAZARD PICTOGRAMS:**Hazard Statement(s)**

H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage.

Precautionary Statement(s):**Prevention**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/light/.../equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.



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P260 -Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 - IF INHALED - Remove person to fresh air and keep comfortable for breathing
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor
P363 - Wash contaminated clothing before reuse.
P370+378: In case of fire: Use appropriate media to extinguish.

Storage

P403+235+405 - Store in a well ventilated place. Keep cool. Store locked up.

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 1
Hazardous to the aquatic environment, long-term hazard Category 1

Hazard(s) not otherwise classified (HNOC) Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Supplemental information 5% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

MIXTURES

Chemical Name	Common Name /Synonyms	CAS #	Percent %
Alkyl Dimethyl Benzyl Ammonium Chloride		53516-76-0	40 - < 50
2-propanol		67-63-0	5 - < 10
Quaternary Ammonium Compounds, Benzyl-,di-C12-18-alkylmethyl, Chlorides		73049-75-9	< 0.3
Other components below reportable levels			40 - < 50

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.



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Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor



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**Personal precautions,
protective equipment and
emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for
containment and clean up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of SDS.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

**Precautions for
safe handling**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**Conditions for safe storage,
including any
incompatibilities**

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).



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Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component / CAS#	Type	Value
2-propanol (CAS 67-63-0)	PEL	980 mg/m ³ / 400 ppm

US. ACGIH Threshold Limit Values

Component / CAS#	Type	Value
2-propanol (CAS 67-63-0)	STEL / TWA	(STEL) 400 ppm / (TWA) 200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Component / CAS#	Type	Value
2-propanol (CAS 67-63-0)	STEL / TWA	(STEL) 1225 mg/m ³ (TWA) 980 mg/m ³ 500 ppm 400 ppm

Biological limit values

ACGIH Biological Exposure Indices

Component / CAS#	Value	Determinant	Specimen	Sampling Time
2-propanol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering Controls Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Hand protection Wear appropriate chemical resistant clothing.

Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Considerations When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.



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Appearance	Clear	Vapor pressure	Not available.
Physical state	Liquid	Vapor density	Not available.
Form	Liquid	Relative density	Not available.
Color	Colorless to Beige	Solubility(ies)	
Odor	Almond	Solubility (water)	Miscible
Odor threshold	Not available	Partition coefficient (n-octanol/water)	Not available.
pH	5 – 7	Auto-ignition temperature	Not available
Melting point/freezing point	Not available	Decomposition temperature	Not available
Initial boiling point and Boiling range	Not available	Viscosity	106.25 cSt
Flash point	119.8 °F (48.8 °C)	Other information	
Pensky-Martens Closed Cup Evaporation rate	Not available	Specific gravity	0.97
Flammability (solid, gas)	Not applicable	VOC (Weight %)	5 % estimated

Upper/lower flammability or explosive limits

Flammability limit- lower (%)	Not available	Explosive limit - lower (%)	Not available
Flammability limit- upper (%)	Not available	Explosive limit - upper (%)	Not available

Reactivity	The product is stable and non-reactive under normal conditions of use, storage & transport.
Chemical stability	Material is stable under normal conditions.
Possibility of Hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Isocyanates. Chlorine.
Hazardous decomposition Products	No hazardous decomposition products are known.

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
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Information on toxicological effects

Acute toxicity	Harmful if swallowed
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<u>Components</u>	<u>Species</u>	<u>Test Results</u>
2-propanol (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	16400 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Rat	> 10000 ppm, 6 h
Oral		
LD50	Rat	5840 mg/kg
Alkyl Dimethyl Benzyl Ammonium Chloride (CAS 53516-76-0)		
Acute		
Dermal		
LD50		3560 mg/kg
Oral		
LD50		430 mg/kg
Quaternary Ammonium Compounds, Benzyl-,di-C12-18-alkylmethyl, Chlorides (CAS 73049-75-9)		
Acute		
Dermal		
LD50		3560 mg/kg
Oral		
LD50		430 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/ irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)-	Not listed.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity	
Single exposure -	Not classified.
Repeated exposure -	Not classified
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

Ecotoxicity Very toxic to aquatic life with long lasting effects.



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<u>Components</u>		<u>Species</u>	<u>Test Results</u>
2-propanol (CAS 67-63-0)			
<u>Aquatic</u>			
Crustacea	EC50	Daphnia	> 10000 mg/l, 48 h
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
		Pimephales promelas	9640 mg/l, 96 h
Alkyl Dimethyl Benzyl Ammonium Chloride (CAS 53516-76-0)			
<u>Aquatic</u>			
Fish	LC50	Striped bass (Morone saxatilis)	0.5 mg/l, 96 hours
<i>Acute</i>			
Fish	LC50	Bluegill (Lepomis macrochirus)	0.515 mg/l
<i>Chronic</i>			
Crustacea	NOEL	Daphnia	0.0042 mg/l
Quaternary Ammonium Compounds, Benzyl-,di-C12-18-alkylmethyl, Chlorides (CAS 73049-75-9)			
<u>Aquatic</u>			
<i>Acute</i>			
Fish	LC50	Bluegill (Lepomis macrochirus)	0.515 mg/l
<i>Chronic</i>			
Crustacea	NOEL	Daphnia	0.0042 mg/l

* Estimates for product may be based on additional component data not shown.

Persistence and degradability This product is expected to be readily biodegradable.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-propanol 0.05

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Disposal Instructions

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.



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DOT

UN number	UN2920
UN proper shipping name	Corrosive liquids, flammable, n.o.s. (Quaternary Ammonium Compound, Isopropanol)
Transport hazard class(es)	
Class	8
Subsidiary risk	3
Label(s)	8, 3
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B2, IB2, T11, TP2, TP27
Packaging exceptions	None
Packaging non bulk	202
Packaging bulk	243
ERG number	132

Note: Class 3 labels are not required when packages are transported domestically by rail or highway as noted in 49CFR 172.402(a)

IATA

UN number	UN2920
UN proper shipping name	Corrosive liquid, flammable, n.o.s. (Quaternary Ammonium Compound, Isopropanol)
Transport hazard class(es)	
Class	8
Subsidiary risk	3
Packing group	II
Environmental hazards	No.
ERG Code	8F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

UN number	UN2920
UN proper shipping name	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (QUATERNARY AMMONIUM COMPOUND, ISOPROPANOL)
Transport hazard class(es)	
Class	8
Subsidiary risk	3
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-C
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.



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US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4) 2-propanol (CAS 67-63-0) Listed.

SARA 304 Emergency release notification Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Chemical

No

SARA 313 (TRI reporting)

<u>Chemical name</u>	<u>CAS number</u>	<u>% by wt.</u>
2-propanol	67-63-0	5 - < 10

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

FIFRA Information This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Listed below is the hazard information as required on the pesticide label.

Signal word DANGER

KEEP OUT OF REACH OF CHILDREN

Hazard statement Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled.

Harmful if swallowed or absorbed through skin.

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-propanol (CAS 67-63-0)

US. Massachusetts RTK - Substance List

2-propanol (CAS 67-63-0)



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US. New Jersey Worker and Community Right-to-Know Act

2-propanol (CAS 67-63-0)

US. Pennsylvania Worker and Community Right-to-Know Law

2-propanol (CAS 67-63-0)

US. Rhode Island RTK

2-propanol (CAS 67-63-0)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

NFPA Ratings

Health- 3

Flammability- 3

Instability- 0

DATE OF PREPARATION

6-02-2015

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