SAFETY DATA SHEET

Issue Date 12-Jul-2012

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Version 1

## **1. PRODUCT AND COMPANY IDENTIFICATION**

Product identifier	
Product Code	16760
Product Name	Lemon Quat

#### Other means of identification

Recommended use of the chemical and restrictions on use Use only for the purpose on the product label.

#### Details of the supplier of the safety data sheet

Manufacturer / Manufactured For ChemMark of Houston 6531 Petropark Dr. Houston, TX 77041 Phone: (832) 467-1233

# Emergency telephone number

24 Hour Emergency Phone Number 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

## **Classification**

#### Label elements

Emergency Overview		
Appearance Yellow	Physical state Liquid	Odor Lemon

#### **Precautionary Statements - Response**

Specific Treatment (See Section 4 on the SDS).

- 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/attention.
- IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Drink plenty of water.

#### **Precautionary Statements - Storage**

Store in a cool, dry place away from strong oxidizing agents. Keep locked up and out of the reach of children. **Precautionary Statements - Disposal** Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### Hazards not otherwise classified (HNOC)

Other Information Unknown Acute Toxicity

0.35% of the mixture consists of ingredient(s) of unknown toxicity.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

# 4. FIRST AID MEASURES

First aid measures

	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.		
•	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If irritation persists, call a physician.		
	If mists/vapors are formed or irritation occurs, leave area and do not return until mists/vapors have dissipated. If irritation persists, see a physician.		
0	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If irritation persists, see a physician.		
Most important symptoms and effects, both acute and delayed			
Symptoms	The product causes irritation of eyes, skin and mucous membranes. May cause sensitization by skin contact.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

No Information available.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

## Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain spill. Clean up with inert material and place in a properly labeled container.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

 Exposure Guidelines
 This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>
		(vacated) TWA: 1900 mg/m <sup>3</sup>	-

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962
	(11th Cir., 1992).

#### Appropriate engineering controls

Engineering Controls	Showers, Eyewash stations & Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Skin and body protection	Rubber gloves.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators or air purifying respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Appearance Odor Odor threshold	Liquid Yellow Lemon No Information available	
Property pH Specific Gravity Viscosity Melting point/freezing point Boiling point / boiling range Flash point	<u>Values</u> 10.0 - 11.0 1.009 No Information available No Information available > 212 / °F Degrees N/A	<u>Remarks • Method</u>
Evaporation rate Flammability (solid, gas)	< 1 No Information available	(butyl acetate = 1)

## Lemon Quat

	10. STABILITY AND REACTIVITY
VOC Content (%)	0.17
Density Lbs/Gal	No Information available
Other Information	
Decomposition temperature	No Information available
Autoignition temperature	No Information available
(n-octanol/water)	
Partition Coefficient	No Information available
Water solubility	Complete
Vapor density	N/A
Vapor pressure	N/A
Lower flammability limit:	N/A
Upper flammability limit:	N/A

#### Reactivity No data available

### **Chemical stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

### **Conditions to avoid**

No special precautions beyond standard safe industrial practices.

## Incompatible materials

Strong oxidizing agents.

## **Hazardous Decomposition Products**

Oxides of carbon and nitrogen.

# **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nonylphenol Polyethylene Glycol Ether 127087-87-0	= 1310 mg/kg (Rat)	-	-
Alkyl dimethyl benzyl ammonium chloride 68391-01-5	= 500 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	-
Alkyl dimethyl ethylbenzyl ammonium chloride 85409-23-0	= 250 mg/kg(Rat)	= 3400 mg/kg ( Rabbit )	= 86 mg/L(Rat)4 h
Tetrasodium EDTA 64-02-8	= 10 g/kg (Rat)= 1658 mg/kg ( Rat)	-	-
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat)4 h
Trisodium nitrilotriacetate 5064-31-3	= 920 mg/kg (Rat)	-	> 5 mg/L (Rat)4 h

Amines, C12-18, alkyldimethyl 68391-04-8	= 750 mg/kg(Rat)	> 2000 mg/kg ( Rabbit )	-
Ethylenediaminetriacetic Acid, trisodium salt (ED3Ana3) 19019-43-3	= 1780 mg/kg(Rat)	-	_
Information on toxicological ef	fects_		
Symptoms	No Information available.		
Delayed and immediate effects	as well as chronic effects fro	m short and long-term exposure	
Sensitization	No Information available.		
Germ cell mutagenicity	No Information available.		
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.		
	Ethanol has been shown	to be carcinogenic in long-term studi	es only when consumed as
	alcoholic beverage.	6 6	
ACGIH (American Conference	of Governmental Industrial Hygie	nists)	
A3 - Animal Carcinogen	55	,	
IARC (International Agency for	<sup>-</sup> Research on Cancer)		
Group 1 - Carcinogenic to Huma			
NTP (National Toxicology Proc	jram)		
Known - Known Carcinogen			
	nd Health Administration of the US	S Department of Labor)	
X - Present			
Reproductive toxicity	No Information available.		
STOT - single exposure	No Information available.		
STOT - repeated exposure	No Information available.		
Chronic toxicity		to be a reproductive toxin only when	
	beverage. Ethanol has be	en shown to be carcinogenic in long	-term studies only when
	consumed as alcoholic be	everage.	
Aspiration hazard	No Information available.	-	
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## Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0.35% of the mixture consists of ingredient(s) of unknown toxicity. The following values are calculated based on chapter 3.1 of the GHS document .

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

5.34% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Tetrasodium EDTA 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	610: 24 h Daphnia magna mg/L EC50
Ethanol 64-17-5	-	5	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50

<b>T B B B B B B B B B B</b>			500 4000 401 B 1 1
Trisodium nitrilotriacetate		93 - 170: 96 h Pimephales promelas	
5064-31-3	mg/L EC50	mg/L LC50 flow-through 560 - 1000:	mg/L LC50
		96 h Oryzias latipes mg/L LC50	
		semi-static 72 - 133: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		static 560 - 1000: 96 h Poecilia	
		reticulata mg/L LC50 semi-static	
		560 - 1000: 96 h Poecilia reticulata	
		mg/L LC50 114: 96 h Pimephales	
		promelas mg/L LC50 175 - 225: 96	
		h Lepomis macrochirus mg/L LC50	
		static 252: 96 h Lepomis	
		macrochirus mg/L LC50 470: 96 h	
		Pimephales promelas mg/L LC50	
		static 560 - 1000: 96 h Oryzias	
		latipes mg/L LC50	

#### Persistence and degradability No Information available.

## Bioaccumulation

No Information available.

Other adverse effects

No Information available.

## **13. DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

## **14. TRANSPORT INFORMATION**

The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under 49 CFR, IATA and IMDG to assure regulatory compliance.

#### DOT

Not regulated

## **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

#### Legend:

 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory.

 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List.

 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

 PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### US State Regulations

#### California Proposition 65

This product contains chemicals known to the state of California to cause cancer, or birth defects or other reproductive harm. Ethanol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	California Proposition 65	
Ethanol - 64-17-5	Carcinogen	
	Developmental	

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	X	X	X
Trisodium nitrilotriacetate 5064-31-3	-	X	-
Sodium Hydroxide 1310-73-2	X	X	-

### U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

## **16. OTHER INFORMATION**

HMIS	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection X
Legend N/A - Not Applicable N/E - Not Established N/D - Not Determined N/K - Not Known				
Issue Date Revision Date Revision Note Disclaimer	12-Jul-20 24-May-2 New form	015		

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet