# **SAFETY DATA SHEET**



#### pH7Q Ultra

Section 1. Identification         GHS product identifier       : pH7Q Uita         Other means of       : Not available.         isonffication       :         Product type       : Liquid.         Relevant identification       :         Not applicable.       :         Supplier's details       :         Betrant identification       :         Betrant identification       :         Supplier's details       :         Betrant Values       :         Supplier's details       :         Chemtrec 800-424-9300 (24 Hour)       :         number (with hours of operation)       :         Status       :       :         C3HAPHOS status       :       :         C3HAPHOS status       :       :         C42 CFR 1910.1200; This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pasticidon orteria and heazard Communication Standard information requirements if inform the classification orteria and heazard information requirements affor workplace labels of nonpasticide heamclase. Place read complete product label.         Classification of the substance or mixture       :         substance or mixture       :         Signal word       :       :		
Other means of : Not available.         Identification         Product type : Liquid.         Relovant identified uses of the substance or mixture and uses advised against         Not applicable.         Supplier's details : Betco Corporation 1001 Brown Avenue Toledo, OH 43607 www.betco.com 888-462-3826         Emergency telephone number (with hours of operation)         Section 2. Hazards identification         OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). 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 form the classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/RRTATION - Category 2 SERIOUS EVE DAMAGE/ EVE IRRITATION - Category 2A SKIN CORNER: Category 20 SERIOUS EVE DAMAGE/	Section 1. Identif	ication
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Not applicable.         Supplier's details       : Betco Corporation 1001 Brown Avenue Toeldo, OH 43607 www.betco.com 8884462-3826         Emergency telephone number (with hours of operation)       : Chemtrec 800-424-9300 (24 Hour)         Section 2. Hazards identification       : This material is considered hazardous by the OSHA Hazard Communication Standard (28 CFR 1910-1200). 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 on thera and hazard information required for safety data sheets, and for workplace labels of nonpesticide chemicals. Please read complete product label.         Classification of the substance or mixture       : ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN USE SEN SUBJERGE FEE IRRITATION - Category 2 SKIN USE SEN SITIZATION - Category 1         GHS label elements Hazard pictograms       : Warning (Per OSHA). DANGER (Per EPA).         Hazard statements       : Harmful if swallowed. Causes eye irritation. May cause an allergic skin reaction. (Previous statements per OSHA). Corrosive. Causes irreversible eye damage and skin burns. Harmful if inhaled, swallowed or absorbed through the skin. (Previous statements per EPA).         Precention       : Wear protective gloves: > 8 hours (breakthrough time): bulyl rubber. Wear eye or face protection: Recommended: splash goggles. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handing. Contaminated work clothing should not be allowed ou	Product type	: Liquid.
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Storage : Not applicable.	Response	mouth. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation
	Storage	: Not applicable.

Date of issue/Date of revision

: 4/7/2015.

Date of previous issue

: 4/6/2015.

Version :2

1/14

### Section 2. Hazards identification

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

# Hazards not otherwise classified

### Section 3. Composition/information on ingredients

: None known.

Substance/mixture	1	Mixture
Other means of	1	Not available.
identification		

#### CAS number/other identifiers

CAS number	: Not applicable.
Product code	: 325

Ingredient name	%	CAS number
didecyldimethylammonium chloride	≥10 - <24	7173-51-5
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	≥5 - <10	68424-85-1
Ethyl alcohol	≥2 - <3	64-17-5
Alcohols, C12-15, ethoxylated	≥1 - <3	68131-39-5
edetic acid	≥1 - <3	60-00-4
citral	≥0.1 - <0.3	5392-40-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

Description of necessary first aid measures			
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.		
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		

# Section 4. First aid measures

Most important symptoms/e	ffects, acute and delayed
Potential acute health effect	<u>ets</u>
Eye contact	: Causes serious eye irritation (Per OSHA). Causes irreversible eye damage (Per EPA).
Inhalation	: No known significant effects or critical hazards (Per OSHA). Harmful if inhaled (Per EPA).
Skin contact	: Causes skin irritation. May cause an allergic skin reaction. (Previous statements per OSHA). Causes skin burns. Harmful if absorbed through the skin (Previous statements per EPA).
Ingestion	: Harmful if swallowed.
<u>Over-exposure signs/symp</u>	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

-	-
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

### Section 8. Exposure controls/personal protection

Ingredient name		Exposure limits
Ethyl alcohol		ACGIH TLV (United States, 4/2014). STEL: 1000 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 10/2013). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 2/2013). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m <sup>3</sup> 8 hours.
citral		ACGIH TLV (United States, 4/2014). Absorbed through skin. Skin sensitizer. TWA: 5 ppm 8 hours. Form: Inhalable fraction and vapor
Appropriate engineering controls	: Good general ventilatio contaminants.	n should be sufficient to control worker exposure to airborne
Environmental exposure controls	they comply with the re cases, fume scrubbers	tion or work process equipment should be checked to ensure quirements of environmental protection legislation. In some , filters or engineering modifications to the process equipment duce emissions to acceptable levels.
ndividual protection meas	ures	
Hygiene measures	eating, smoking and us Appropriate techniques Contaminated work clo	and face thoroughly after handling chemical products, before sing the lavatory and at the end of the working period. Is should be used to remove potentially contaminated clothing. thing should not be allowed out of the workplace. Wash before reusing. Ensure that eyewash stations and safety workstation location.
Eye/face protection	assessment indicates t gases or dusts. If cont	ring with an approved standard should be used when a risk his is necessary to avoid exposure to liquid splashes, mists, act is possible, the following protection should be worn, unless les a higher degree of protection: chemical splash goggles.
Skin protection		
Hand protection	worn at all times when necessary. Considerin during use that the glow noted that the time to b glove manufacturers. I	bervious gloves complying with an approved standard should be handling chemical products if a risk assessment indicates this is g the parameters specified by the glove manufacturer, check ves are still retaining their protective properties. It should be reakthrough for any glove material may be different for differen n the case of mixtures, consisting of several substances, the loves cannot be accurately estimated. > 8 hours (breakthrough
Body protection		uipment for the body should be selected based on the task bein s involved and should be approved by a specialist before
Other skin protection		nd any additional skin protection measures should be selected g performed and the risks involved and should be approved by ng this product.
Respiratory protection	standard if a risk asses	ir-purifying or air-fed respirator complying with an approved sment indicates this is necessary. Respirator selection must b icipated exposure levels, the hazards of the product and the sa lected respirator.

# Section 8. Exposure controls/personal protection

Personal protective equipment (Pictograms)



### Section 9. Physical and chemical properties

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<u>Appearance</u>	
Physical state	: Liquid.
Color	: Clear. Orange. [Dark]
Odor	: Lemon-like.
Odor threshold	: Not available.
рН	: 7.2 to 8.2
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: >93.333°C (>200°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.988
Solubility	: Easily soluble in the following materials: cold water. Soluble in the following materials: hot water.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
didecyldimethylammonium chloride	LD50 Oral	Rat	84 mg/kg	-
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	LD50 Oral	Rat	426 mg/kg	-
Ethyl alcohol	LC50 Inhalation Vapor LD50 Oral	Rat Rat	124700 mg/m³ 7 g/kg	4 hours -
Alcohols, C12-15, ethoxylated	LD50 Oral	Rat	2 g/kg	-
citral	LD50 Dermal LD50 Oral	Rabbit Rat	2250 mg/kg 3.45 g/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
didecyldimethylammonium chloride	Skin - Severe irritant	Rabbit	-	500 milligrams	-
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	Skin - Severe irritant	Rabbit	-	25 milligrams	-
Ethyl alcohol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	0.0666666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
citral	Skin - Moderate irritant	Guinea pig	-	48 hours 1 Percent	-
	Skin - Severe irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 40 milligrams	-
	Skin - Severe irritant	Man	-	48 hours 16 milligrams	-
	Skin - Severe irritant	Pig	-	48 hours 50 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-

#### **Sensitization**

Not available.

Mutagenicity Not available.

Carcinogenicity Not available.

**Classification** 

# Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
Ethyl alcohol	-	1	-

#### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.	
Information on the likely routes of exposure	: Routes of entry anticipated: Oral, Dermal. Routes of entry not anticipated: Inhalation.
Potential acute health effects	-
Eye contact	: Causes serious eye irritation (Per OSHA). Causes irreversible eye damage (Per EPA).
Inhalation	<ul> <li>No known significant effects or critical hazards (Per OSHA). Harmful if inhaled (Per EPA).</li> </ul>
Skin contact	<ul> <li>Causes skin irritation. May cause an allergic skin reaction. (Previous statements per OSHA). Causes skin burns. Harmful if absorbed through the skin (Previous statements per EPA).</li> </ul>
Ingestion	: Harmful if swallowed.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
	pain or irritation
	watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following:
OKINCONTACT	irritation redness
Ingestion	: No specific data.
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	<ul> <li>Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Date of issue/Date of revision	: 4/7/2015. Date of previous issue : 4/6/2015. Version : 2 8/14

# Section 11. Toxicological information

Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	732.3 mg/kg

# Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
didecyldimethylammonium chloride	Acute EC50 110 µg/l Fresh water	Algae - Chlorella pyrenoidosa - Exponential growth phase	72 hours
	Acute EC50 14.22 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 18 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 39 µg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 0.01 µg/l Fresh water	Fish - Acipenser transmontanus - Larvae	96 hours
	Chronic NOEC 25 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	Chronic NOEC 125 μg/l Fresh water Acute EC50 670 μg/l Fresh water	Daphnia - Daphnia magna Algae - Chlorella pyrenoidosa - Exponential growth phase	21 days 96 hours
	Acute EC50 5.9 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 64 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4.15 ppb Marine water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 32.2 ppb	Fish - Pimephales promelas	34 days
Ethyl alcohol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks
Alcohols, C12-15, ethoxylated	Acute EC50 0.7 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.39 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 302 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 83 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
edetic acid	Acute EC50 113000 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Date of issue/Date of revision	: 4/7/2015. Date of previous issue	: 4/6/2015. Version : 2	۱ و

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Ethyl alcohol	-0.35	-	low
Alcohols, C12-15, ethoxylated	2.03 to 6.24	237	low
edetic acid	-	1.8	low
citral	2.76	89.72	low

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

### Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal
	of this product, solutions and any by-products should at all times comply with the
	requirements of environmental protection and waste disposal legislation and any
	regional local authority requirements. Dispose of surplus and non-recyclable products
	via a licensed waste disposal contractor. Waste should not be disposed of untreated to
	the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
	Waste packaging should be recycled. Incineration or landfill should only be considered
	when recycling is not feasible. This material and its container must be disposed of in a
	safe way. Care should be taken when handling emptied containers that have not been
	cleaned or rinsed out. Empty containers or liners may retain some product residues.
	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains
	and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	1760	1760	1760	1760	1903	1760
UN proper shipping name	Corrosive Liquids, N.O.S. (Quaternary Ammonium Chloride)	Corrosive Liquids, N.O.S. (Quaternary Ammonium Chloride)	Corrosive Liquids, N.O.S. (Quaternary Ammonium Chloride)	Corrosive Liquids, N.O.S. (Quaternary Ammonium Chloride)	Disinfectant, Liquid, Corrosive, N.O. S. (Didecyldimethylammonium Chloride)	Corrosive Liquids, N.O.S. (Quaternary Ammonium Chloride)
Transport hazard class(es)	8 CORRECTIVE	8	8	8	8	8
Packing group	Ш	Ш	Ш	Ш	111	111
Environmental hazards	No.	No.	No.	Yes.	Yes.	No.
Date of issue/Date of r	evision :	4/7/2015. Date o	f previous issue	: 4/6/2015.	Version	:2 10/1

# Section 14. Transport information

Additional	Limited	Explosive	-	The	The marine	The
information	quantity	Limit and		environmentally	pollutant mark	environmentally
	Yes.	Limited		hazardous	is not required	hazardous
		<b>Quantity Index</b>		substance	when	substance
		5		mark is not	transported in	mark may
				required when	sizes of ≤5 L or	appear if
				transported in	≤5 kg.	required by
				sizes of ≤5 L or		other
				≤5 kg.		transportation
						regulations.
				<u>Tunnel code</u>		
				(E)		

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according	1	Not available.
to Annex II of MARPOL		
73/78 and the IBC Code		

	C12-16-alkyldimethyl, chlorides
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	Not determined.
	Clean Water Act (CWA) 311: edetic acid; sodium hydroxide
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ	: Not applicable.
SARA 311/312	
Classification	: Immediate (acute) health hazard

## Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
didecyldimethylammonium chloride	≥10 - <24	No.	No.	No.	Yes.	No.
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	≥5 - <10	No.	No.	No.	Yes.	No.
Ethyl alcohol	≥2 - <3	Yes.	No.	No.	Yes.	No.
Alcohols, C12-15, ethoxylated	≥1 - <3	No.	No.	No.	Yes.	No.
edetic acid	≥1 - <3	No.	No.	No.	Yes.	No.
citral	≥0.1 - <0.3	Yes.	No.	No.	Yes.	No.

#### **State regulations**

Massachusetts	<ul> <li>The following components are listed: ETHYL ALCOHOL; ETHYLENEDIAMINE TETRAACETIC ACID (EDTA)</li> </ul>
New York	: The following components are listed: Ethylenediamine tetraacetic acid
New Jersey	: The following components are listed: ETHYL ALCOHOL; ALCOHOL; ETHYLENEDIAMINETETRAACETIC ACID; GLYCINE, N,N'-1,2-ETHANEDIYLBIS[N- (CARBOXYMETHYL)-; EDTA
Pennsylvania	<ul> <li>The following components are listed: DENATURED ALCOHOL; GLYCINE, N,N'-1, 2-ETHANEDIYLBIS[N-(CARBOXYMETHYL)-</li> </ul>

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

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### International lists

National inventory	
Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Classification **Justification** Acute Tox. 4, H302 Calculation method Skin Irrit. 2, H315 Calculation method Eye Irrit. 2A, H319 Calculation method

#### Procedure used to derive the classification

Skin Sens. 1, H317	Calculation method
<u>History</u>	
Date of printing	: 4/7/2015.
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Version	: 2
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>
References	: Not available.
Indicates information th	at has changed from previously issued version.

Notice to reader

### Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.