

#### SAFETY DATA SHEET

Product dilution information: product liabel. Uses other than those identified are not recommended. Product dilution/application directions for use.  1.3 Details of the supplier of the safety data sheet Company: Propared by: S62 Captian Newlie Dr Waterbury, CT 600:243-5350 prone: 800-243-5350 prone: 800-243-5350 prone: 800-243-5350 prone: 800-242-9300 (CHEMTREC)  2. Hazards identification  2.1 Emergency telephone number: 800-424-9300 (CHEMTREC)  2. Hazards identification  2.1 Emergency telephone Harmod R search and serious eye damage GHS classification  3.3 Category 1  3.4 Category 1  3.5 Category 4  3.5 Category	1.	Identification of t	he substance/mixture and of the company/undertaking
Uses of the Substance/Mixture: EPA Registration Number: 10324-154-8714 Disinfectant. This product is intended to be diluted prior to use. For further information to the EPA Registered product liabel. Uses other than those identified are not accommended. <b>Product dilution information:</b> Disinfectant/Non-Food Contact Sanitizer: 2 ounce per galon. Refer to EPA registered label for product dilution/application directions for use. <b>1.3 Details of the supplier of the safety data sheet</b> Company: Heimmacal Russenton Labe. Inc. Waterbury: CT 06705 Prone: 800-423-5350 Email: qe@pharmacal.com Prepared by: SDS Coordinator Prepared by: SDS Coordinator <b>2.1 Emergency telephone</b> Emergency telephone number: 600-424-9300 (CHEMTREC) <b>2. Hazards identification</b> <b>4. Emergency telephone</b> <b>4. Emergency telephone</b> <b>4. Emergency telephone</b> <b>5. Clear solution with characteristic odor</b> Precautionary statements: Clear solution with characteristic odor Precautionary statements: Clear solution with characteristic odor <b>Precautionary statements:</b> Not Clear Solution with characteristic odor <b>Precautionary Statements:</b> Not Clear Solution with characteristic odor <b>Harmful if swallowed</b> <b>1.3 Cleares stormary statements:</b> Not Cleare of Cleare Solution <b>Respony 1</b> Signal Word: Hazard Statements: H302: Harmful if contact with skin H315: Clauses s	1.1		
Product dilution information: Disinfectant/Non-Food Contact Sanitzer: 2 ounce per gallon. Refer to EPA registered label for product dilution information for use.  1.3 Details of the supplier of the safety data sheet Company: Pharmacal Research Labs. Inc. 562 Captain Nevlile Dr Waterbury, CT 60705 Phone: 800-243-5350 Email: qc@pharmacal.com Prepared by: SDS Coordinator Date prepared: 12/14/2016 Supersedes: 9/8/2016 Reason: Review and update 1.4 Energency telephone Emergency telephone number: 800-424-9300 (CHEMTREC) 2. Hazards identification 2.1 Emergency telephone number: 800-424-9300 (CHEMTREC) 2. Hazards identification 2.1 Emergency telephone number: Causes skin initiation and serious eye damage Harmful if swallowed GHS classification Berlin Supervise Acute toxicity (col) Category 1 Sun corroson/initiation Category 1 Sun corroson/initiation Category 2 Acute toxicity (col) Serious eye damage/eye irritation Category 2 Acute toxicity (col) Serious eye damage/eye irritation Category 2 Acute toxicity (col) Serious eye damage/eye irritation Category 2 Acute toxicity (col) Serious eye damage/eye irritation Serious eye damage/eye irritation Category 2 Acute toxicity (col) Serious eye damage/eye irritation Serious eyee damage/eye irritation Seri	1.2		ance/Mixture: EPA Registration Number: 10324-154-8714 Disinfectant. This product is intended to be diluted prior to use. For further information refer to the EPA Registered product label. Uses other than those identified are not
<ul> <li>1.3 Details of the supplier of the safety data sheet Company: Pharmacal Research Labs. Inc. 552 Captain Neville Dr Waterbury, CI 0705 Phone: 800-243-3530 Email: qc@pharmacal.com Prepared by: SDS Coordinator Date prepared: 12/14/2018 Supersedes: 9/8/2016 Reason: Review and update</li> <li>1.4 Emergency telephone Emergency telephone Emergency telephone number: 800-424-9300 (CHEMTREC)</li> <li>2. Hazards identification</li> <li>2.1 Emergency overview Appearance: Clear solution with characteristic odor Precautionary statements: Clear solution with characteristic odor Precautionary statements: Clear solution with characteristic odor Precautionary statements: Clear solution with characteristic odor Appearance: Meeting Betting Serious syntaments: Causes skin ifritation and serious eye damage Hemitul is wallowed GHS classification</li> <li>2.1 Emergency overview Acute toxicity (oran) Category 1 Skin corrosion/irritation Serious syntaments: Category 4 Acute toxicity (oran) Category 4 Acute toxicity (oran) Category 4 Acute toxicity (oran) Category 4 Acute toxicity (oran)</li> <li>2.2 GHS label elements, including precautionary statements</li> <li>Signal Word: Hazzi Marmul if swallowed Hazzi Alarmul in contact with skin Hazzi Causes stin initiation Hazzi Ammul in contact with skin Hazzi Causes arinous eye damage Precautionary Statements: DANGERI Hazzi Causes arinous eye damage Precautionary Statements: P32: Dong et al. (in first swallowed Hazzi Causes arinous eye damage P23: Nets a protective gloves and eye, face and foot protection Response P301+312+3330+331: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you 1 unweil. Do NOT induce vointing P234: Wash affected areas throouphy with water for several minutes. Remove contact lenses, i present and easy if container to sine mode water in a no section contained coloring P304+9304: IFINALED: Remove victim to feath and keep at rest in a position confidence oranism P303: Wash containneed coloring performant and keep at</li></ul>	Produc	t dilution informatio	
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Page 1 of 8			QUATRICIDE PV Second Generation Page 1 of 8

#### Product at Use-Dilution Hazard pictograms/symbols None

Signal Word: Hazard Statements: Precautionary Statements:	Warning H320: Causes eye irritation <b>Prevention</b> P264: Wash affected areas thoroughly after handling <b>Response</b> P305+P351+P338+P337+P313: 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.

### 2.3 Other hazards

No information available

#### 3. Composition/information on ingredients

#### 3.1 Information on components and impurities

Chemical name	CAS	GHS Classification	Concentration,
	number(s)		%
Alkyl (C <sub>12-16</sub> ) dimethylbenzyl ammonium chloride	68424-85-1	Serious eye damage/eye irritation: Category 1, Skin corrosion/irritation: Category 1B, Acute toxicity (oral):	≥4.2-≤4.4
Didecyl dimethyl ammonium chloride	7173-51-5	Category 3, Acute toxicity (dermal): Category 3; H301, H315, H318	
Tetrasodium EDTA	64-02-8	Serious eye damage/eye irritation: Category 2B, Acute toxicity (oral): Category 4; H302, H319	≥0.7-≤0.8
Alcohols, C9-11 ethoxylated	68439-46-3	Serious eye damage/eye irritation: Category 1, Acute toxicity (oral): Category 4; H302, H318	≥0.5-≤0.7
Other components		Not classified	Balance

#### **Product at Use-Dilution**

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

#### 4. First aid measures

If inhaled:

Risks:

#### 4.1 Description of first-aid measures

Description of first	st-aid measures
General advice:	Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.
Eye contact:	Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.
Skin contact:	Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.
Ingestion:	Do NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Rinse mouth with water. Seek medical attention.
If inhaled:	Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Product at Use-D	ilution
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
Skin contact:	No known effect after skin contact. Rinse with water for a few minutes.
Ingestion:	Get medical attention if symptoms occur

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No special measures required. Treat symptomatically.

Note to physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

#### 5. Firefighting measures

Flash Point and Method: None

-	Accidental release measures	
	Specific firefighting methods:	No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking.
		breathing apparatus and full protective gear.
5.3	Advice for firefighters Special protective equipment for firefighters:	As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained
	On combustion or on thermal decomposition:	May include carbon oxides, nitrogen oxides
	Special hazards during fire fighting:	Container may rupture on heating
5.2	Special hazards arising from the substance of	
	Unsuitable extinguishing media:	No data available
		Use media suitable for the material that is burning
	Suitable extinguishing media:	The product is not flammable.
5.1	Extinguishing media	

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

Spill area may be slippery. Wear appropriate protective equipment (See Section 8).

#### 6.2 Environmental precautions

Avoid conta	ct of	spilled mate	rial and ru	inoff v	vith soi	I and surface	waterways	

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

Recovery:	Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non- metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. Keep in suitable, properly labeled, closed containers for disposal.
Decontamination/	
cleaning:	Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly. Recover the cleaning water for subsequent disposal.
Disposal:	Dispose of in accordance with local regulations

Additional advice: Spill area may be slippery

**Product as Use-Dilution** Use a water rinse for final clean-up

#### 6.4 Reference to other sections

No information available

#### 7. Handling and storage 7.1 Precautions for safe handling Technical measures: Advice on safe handling and usage: Does not require any specific or particular measures Wear appropriate protective equipment including long chemical resistant gloves, chemical splash goggles and protective footwear. Handle in accordance with good industrial hygiene and safety practice. Do not spray toward face. Wash affected areas after use. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

# Product at Use-Dilution Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Conditions for safe storage, including any incompatibilities Technical measures for storage: Does not require any specific or particular measures Storage class (TRGS 510): Non-combustible, corrosive materials Storage conditions Keep container tightly closed. Opened containers must be carefully resealed and kept upright to prevent leakage. Incompatible products: Hazardous reactions may occur on contact with certain chemicals. Refer to the list of incompatible materials section 10: "Incompatible materials"

#### **Product at Use-Dilution**

Keep out of reach of children. Keep container tightly closed.

#### 7.3 Specific end use(s)

7.2

No information available

#### 8. Exposure controls/personal protection

Introductory remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should he handled in accordance with Section 13: Disposal considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers

## 8.1 Control parameters

•				
_	Components with wo	rkplace control para	meters	
	Components	Value	Control parameters	Basis
	Not reportable			
	-			

8.2	Exposure controls Control measures Engineering measures:	Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not
		required if good ventilation is maintained.
	Personal protective equip	
	Respiratory protection:	In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.
	Hand protection:	Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
	Eye protection:	Wear chemical splash goggles.
	Skin and body protection:	Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.
	Hygiene measures:	Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
		1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
		2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
		3) Wash exposed skin promptly to remove accidental splashes or contact with material.
	Protective measures:	Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use.
		The protective equipment must be selected in accordance with current local standards and in following proper use instructions from the supplier of the protective equipment.
		Selection of appropriate personal protective equipment should be based on an evaluation of the
		performance characteristics of the protective equipment relative to the task(s) to be performed,
		conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.
	Product at Use-Dilution	
	Respiratory protection:	A respirator is not needed under normal and intended conditions of product use
	Hand protection:	No protective equipment is needed under normal use conditions
	Eye protection: Skin and body protection:	No protective equipment is needed under normal use conditions No protective equipment is needed under normal use conditions
	Hygiene measures:	Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
		<ol> <li>Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored</li> </ol>
		2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using
		the toilet 3) Wash exposed skin promptly to remove accidental splashes or contact with product

#### 9. Physical and chemical properties

Physical and chemical properties listed represent typical properties and should not be considered product specifications. Refer to product Certificate of Analysis for Product Specifications or contact Mason Chemical Company for additional information.

#### 9.1 Information on basic physical and chemical properties

Appearance: Odor: Odor Threshold: pH: Freezing point: Melting point/range: Yellow solution Mild odor No information available 6.5-10.5 No information available No information available

> QUATRICIDE PV Second Generation Page 4 of 8

Product at Use-Dilution	
Appearance:	Clear Light Yellow Solution
Odor:	Characteristic odor
pH:	6-8
Flash point:	Does not flash

#### 9.2 Other information

No information available

Stability and reactivity
Reactivity
No information available
Chemical stability
Stable and non-reactive under normal conditions of use, storage and transport
Possibility of hazardous reactions
No information available
Conditions to avoid
No information available
Incompatible materials
Anionic surfactants
Hazardous decomposition products
Oxides of carbon and nitrogen
Toxicological information

#### **Product Summary:**

Causes skin irritation and serious eye damage. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly digestive tract. Vapors and spray mist may irritate throat and respiratory system and cause coughing.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

#### Information on likely routes of exposure:

Eye contact	Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.
Skin contact	Causes skin irritation. Symptoms may include swelling, redness and pain (which may be delayed).
Ingestion	Harmful is swallowed. Causes burns/serious damage to mouth, throat and stomach. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.
Inhalation	May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.
Sensitization	No known effects

#### Product at Use-dilution

**Product Summary:** 

### Causes eye irritation

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

#### Information on likely routes of exposure:

Eye contact	Causes eye irritation. Symptoms may include irritation, watering, redness
Skin contact	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards
Inhalation	No known significant effects or critical hazards
Sensitization	No known effects

11.1	Information on toxicological effects						
	Acute toxicity						
Acute oral:		LD <sub>50</sub> >1000 mg/kg					
	Acute dermal:	LD <sub>50</sub> >2000 mg/kg					
	Acute inhalation:	No information available					
	Acute toxicity (other):	No information available					
	Skin corrosion/irritation						
	Skin irritation:	Causes skin irritation					
	Serious eye damage/eye irritation						
	Eye irritation:	Corrosive. Causes serious eye damage.					
	Respiratory or skin sensitization						
	Sensitization:	Not classified as sensitizing by skin contact					
Product	t at Use-dilution						
	Acute toxicity						
	Acute oral:	LD <sub>50</sub> >5000 mg/kg					
	Acute dermal:	LD <sub>50</sub> >2000 mg/kg					
	Acute inhalation:	No information available					
	Acute toxicity (other):	No information available					
	Skin corrosion/irritation						
	Skin irritation:	No known significant effects or critical hazards					
Serious eye damage/eye irritation Eye irritation: Respiratory or skin sensitization		0					
		Causes eye irritation					
	Sensitization:	Not classified as sensitizing by skin contact					
	Mutagenicity						
	Genotoxicity in vitro:	No information available					
	Genotoxicity in vivo:	No information available					
	Carcinogenicity						
	Carcinogenicity:	This product does not contain any ingredient designated as probable or					
	earentegemenyt	suspected human carcinogens by IARC, ACGIH					
	Toxicity for reproduction and development						
	Toxicity to reproduction/fertility:	No information available					
	Developmental toxicity/teratogenicity:	No information available					
	Specific Target Organ Toxicity (STOT)						
	STOT-single exposure:	No information available					
	STOT-repeated exposure:	No information available					
	Aspiration toxicity						

Other Hazards No information available

12.	Ecological information	
12.1	Toxicity	
	Aquatic toxicity:	Toxic to aquatic life
12.2	Persistence and degradability	
	Biodegradation:	No information available
12.3	Bioaccumulative potential	
	Partition coefficient: n-octanol/water:	No bioaccumulation is to be expected (log Pow<=4)
	Bioconcentration factor (BCF):	No information available
12.4	Mobility in soil	
	Known distribution to	
	environmental compartments:	No information available
12.5	Results of PBT and vPvB assessment	
	No information available	
12.6	Other adverse effects	
	Environmental assessment:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13.	Disposal co	nsiderations					
13.1	Waste treatment methods PESTICIDE DISPOSAL: Product disposal:		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. Observe all applicable federal, state, and local regulations				
		ckaging:			residue when emptyir		
Duaduat	t at Use-Dilutio	-					
Product		nent methods					
	PESTICIDE DISPOSAL:			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.			
		oduct disposal:		Diluted proc	luct can be flushed to	sanitary sewer	
	Pa	ckaging:		Discard em	oty container in trash o	or offer for recycling	
14.	Transportati	on information					
	-				1		
	DOT Hazard Classification:		Not regulated				
	Product at U						
	DOT Hazard	Classification:		Not applical	ble		
15.	Regulatory i	nformation					
15.1	Safety, healt	h and environmental re	egulations/le	gislation sp	pecific for the substa	nce or mixture	
	Notification	status:			Not applicabl	e	
		d Communication Star	odard (26 CE	P 1010 1200	)): Hazardous		
	OSHA Hazai	a communication star		1310.1200			
	CERCLA (RO						
	lient(s)	CAS#	Weight		CERCLA RQ	Section 302 TPQ	
Not list		A Freeman also Hamandare	- Cubatanaa	- (202/204)			
Ingrad	SARA/EPCRA Extremely Hazardous Substance		s (302/304)	RQ	TPQ		
	Ingredient(s) CAS# Weight Not listed		weight		ĸw	IFQ	
NUL IIS		d Categories (311/312)					
Fire	JANA Hazai	Reactive	Acute hea	lth	Chronic health		
The		Reactive	hazard		hazard		
No		No	Yes		No	-	
	SARA Toxic			ponents are		tion 313 reporting requirements	
Ingred	lient(s)	CAS#	Weight	. <u>.</u>			
Not list							
		olatile Organic compoun	ds				
Ingred	Ingredient(s) CAS# Weight						
Not list			<b>_</b>				

15.2

Other regulations No information available

#### 16. Other information

NFPA-Classification		HMIS-Classification	
Health	3 high	Health	3 high
Flammability	0 insignificant	Flammability	0 insignificant
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	В
		B=Safety glasses, Glove	es

Product at Use-Dilution				
NFPA-Classification		HMIS-Classification	HMIS-Classification	
Health	1 slight	Health	1 slight	
Flammability	0 insignificant	Flammability	0 insignificant	
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant	
		HMIS PPE		

Key or le	Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH:	American Conference of Governmental Industrial	NIOSH:	National Institute for Occupational Safety and Health			
Hygienists						
HMIS:	Hazardous Materials Identification System	NTP:	National Toxicology Program			
IARC:	International Agency for Research on Cancer	OSHA:	Occupational Safety and Health Administration			
NFPA:	National Fire Protection Association					

#### **Disclaimer:**

The information and recommendations contained herein are, to the best of Pharmacal's knowledge and belief, accurate and reliable as of the date issued. Pharmacal does not warrant or guarantee their accuracy or reliability, and Pharmacal shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The hazardous materials identification system (HMIS) and national fire protection association ratings have been included by Pharmacal Research Laboratories Inc. In order to provide additional health and hazard information. The ratings recommended are based upon criteria supplied by the developers of these rating systems, together with Pharmacal's interpretation of the available data.