



# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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## PI Quat 20 Disinfectant

Revision 3  
Revision date 2020-06-23

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name	PI Quat 20 Disinfectant
Product code	403290, 303290
Registration No.	10324-94-66171

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC8] Biocidal products (e.g. Disinfectants, pest control);
Description	Disinfectant

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

Company	Neogen Corporation
Address	620 Leshar Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

#### 1.4. Emergency telephone number

	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)
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#### Further information

	Manufactured By:. Preserve International 944 Nandino Blvd. Lexington, KY 40511-1205 U.S.A.  Preserve International is a wholly-owned subsidiary of Neogen Corporation.
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Skin Corr. 1C: H314; Aquatic Chronic 2: H411;
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#### 2.2. Label elements

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## 2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1C: H314 - Causes severe skin burns and eye damage. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - 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. P363 - Wash contaminated clothing before reuse.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations, Follow label instructions

## 2.3. Other hazards

Other hazards	May be harmful by ingestion, inhalation or if absorbed through the skin.
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## Further information

	Read the entire label and follow all use directions, restrictions, and precautions.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Alkyl dimethylbenzyl ammonium chloride		68391-01-5	269-919-4		10.00%	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
Alkyl(C12-14)dimethyl(ethylbenzyl) ammonium chloride		85409-23-0	287-090-7		10.00%	Flam. Liq. 3: H226; Acute Tox. 4: H302; Skin Corr. 1B: H314; Eye Dam. 1: H318;
Ethanol	603-002-00-5	64-17-5	200-578-6		1 - 10%	Flam. Liq. 2: H225;

## Description

	Concentrations listed may not represent exact product specifications.
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## Further information

	Full text of Hazard Statements listed in this Section is provided in Section 16.
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## SECTION 4: First aid measures

## 4.1. Description of first aid measures

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## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

Inhalation	May cause dizziness and headache. May cause irritation to respiratory system.
Eye contact	Causes severe inflammation and may damage the cornea.
Skin contact	Causes skin burns.
Ingestion	Ingestion may cause nausea and vomiting. May cause oral mucosal irritation.

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

	Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.
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## Further information

	Refer to product label and/or package insert for additional information.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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### 5.2. Special hazards arising from the substance or mixture

	Corrosive. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow undiluted product to be released to ground water, water course or sewage system.
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### 5.3. Advice for firefighters

	Do not breathe vapor or spray mist. Wear self-contained breathing apparatus and chemical-protective clothing.
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## SECTION 6: Accidental release measures

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

	In the case of cleanup following a spill, wear protective clothing and appropriate equipment to prevent exposure of skin and eyes and to prevent ingestion or inhalation. Ensure adequate ventilation of the working area. Do not breathe gas/fumes/vapor/spray. Avoid prolonged or repeated exposure.
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### 6.2. Environmental precautions

	Prevent further spillage if safe. Clean area thoroughly with detergent. Do not flush into surface water. Do not let product contaminate subsoil.
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### 6.3. Methods and material for containment and cleaning up

	Absorb spillage to prevent material damage. Clean area thoroughly with detergent. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in compliance with all label
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## 6.3. Methods and material for containment and cleaning up

instructions.

## 6.4. Reference to other sections

See Section(s) 2, 8, and 13 for further information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Read the entire label and follow all use directions, restrictions, and precautions. Use as appropriate: Protective clothing.

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

Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.

### 7.3. Specific end use(s)

See Section(s) 1.2 for further information.

### Further information

Refer to product label and/or package insert for additional information.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limit Values

Ethanol	ACGIH TLV TWA: 1000 ppm	ACGIH TLV STEL: -
	Notations: A4	OSHA PEL 8hr TWA ppm: 1000
	OSHA PEL 8hr TWA mg m3: 1900	Skin Designation: -
	NIOSH REL 10hr TWA ppm:	NIOSH REL 10hr TWA mg m3:
	NIOSH REL 15 min ST ppm:	NIOSH REL 15 min ST mg m3:

### 8.2. Exposure controls



Appropriate engineering controls

Ensure adequate ventilation of the working area.

Individual protection measures

Use as appropriate: Protective equipment.

Eye / face protection

Wear eye/face protection.

Skin protection - Hand protection

Wear: Chemical resistant gloves. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Occupational exposure controls

Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash

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## 8.2. Exposure controls

	station.
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## Further information

	Refer to product label for additional PPE requirements and recommendations. Follow label instructions.
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## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

<b>State</b>	Liquid
<b>Color</b>	Colorless/Light yellow
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	No data available
<b>pH</b>	7 - 8
<b>Melting point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability limits</b>	Not applicable.
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	0.9 - 1.02
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>Solubility</b>	Soluble in water

## 9.2. Other information

<b>VOC (Volatile organic compounds)</b>	≈ 3 %
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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable under normal conditions.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
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## 10.4. Conditions to avoid

	Keep away from extreme temperatures.
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## 10.5. Incompatible materials

	Strong oxidizing agents.
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## 10.6. Hazardous decomposition products

Carbon oxides.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	Causes skin burns.
Serious eye damage/irritation	Causes severe inflammation and may damage the cornea.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	Components(s) may cause damage to human organs based on animal data.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.

## 11.1.2. Mixtures

See Section(s) 3 for further information.

## 11.1.3. Hazard Information

See Section(s) 2 and 3 for further information.

## 11.1.4. Toxicological information

No data available

## 11.1.5. Hazard Class

See Section(s) 2 and 14 for further information.

## 11.1.6. Classification Criteria

Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.

## 11.1.7. Information on likely routes of exposure

Eye contact. Skin contact. Ingestion. Inhalation.

## 11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

See Section(s) 4.2 for further information.

## 11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

See Section(s) 4.2 for further information.

## 11.1.10. Interactive effects

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## 11.1.10. Interactive effects

No data available.

## 11.1.11. Absence of specific data

<1% of this mixture consists of ingredients of unknown acute toxicity.

## 11.1.12. Mixture versus substance information

See Section(s) 3 for further information.

## 11.1.13. Other information

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

No data is available on this product.

### 12.3. Bioaccumulative potential

No data is available on this product.

### Partition coefficient

<b>PI Quat 20 Disinfectant</b>	No data available	<b>Ethanol</b>	-0.349 log P
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### 12.4. Mobility in soil

No data is available on this product.

### 12.5. Results of PBT and vPvB assessment

No data is available on this product.

### 12.6. Other adverse effects

Toxic to aquatic invertebrates, fish.

### Further information

Refer to product label and/or package insert for additional information.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations. Follow label instructions.

### Disposal methods

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.

### Disposal of packaging

Nonrefillable container. Do not reuse or refill this container.  
If empty: Do not reuse this container. Place in trash or offer for recycling, if available.  
If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

### Further information

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## Further information

Refer to product label and/or package insert for additional information. Follow label instructions.

## SECTION 14: Transport information

## Hazard pictograms



## 14.1. UN number

UN1903

## 14.2. UN proper shipping name

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Alkyl dimethyldibenzyl ammonium chloride)

## 14.3. Transport hazard class(es)

DOT	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

## 14.4. Packing group

Packing group III

## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## DOT

Hazard ID	80
Tunnel Category	(E)

## IMDG

EmS Code F-A S-B

## IATA

Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

## SECTION 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
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## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>Chemical Inventories/Right-to-Know Lists:</b>	<p>Toxic Substances Control Act (TSCA): All ingredients listed or exempt.</p> <p>Massachusetts Right-to-Know Hazardous Substance List: This material contains no reportable components.</p> <p>New Jersey Worker and Community Right to Know Act: Ethyl alcohol.</p> <p>Pennsylvania Right to Know Law: Ethanol.</p> <p>Rhode Island Right-to-Know General Law: Ethyl alcohol.</p> <p>California Prop 65: This material contains no reportable components.</p>
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### Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Ethanol	Y	Y	N	N	N	N	N	N	N

### Further information

<b>Signal Word</b>	This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
<b>Label Precautions</b>	<p>DANGER.</p> <p>Keep out of reach of children.</p> <p>Hazards to humans and domestic animals.</p> <p>Corrosive. Causes irreversible eye damage. Causes skin burns. Harmful if swallowed, absorbed through the skin, or inhaled. Avoid breathing spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling this product. Wear protective clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.</p>

## SECTION 16: Other information

### Other information

<b>Revision</b>	<p>This document differs from the previous version in the following areas:.</p> <ol style="list-style-type: none"> <li>1 - Product Use.</li> <li>2 - Other hazards.</li> <li>2 - Further information.</li> <li>4 - Further information.</li> <li>5 - 5.2. Special hazards arising from the substance or mixture.</li> <li>7 - Further information.</li> <li>9 - 9.2. Other information (Product Subcategory).</li> <li>11 - Carcinogenicity.</li> <li>12 - Further information.</li> <li>13 - Further information.</li> <li>14 - DOT.</li> <li>16 - Maximum content of VOC.</li> </ol>
<b>Acronyms</b>	<p>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</p> <p>CAS No.: Chemical Abstracts Service.</p> <p>GHS: Globally Harmonized System.</p> <p>HCS 2012: Hazard Communication Standard (2012 revision).</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: International Civil Aviation Organization.</p>

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## Other information

	<p>IMDG: International Maritime Dangerous Goods.  LD: Lethal dose.  OEL: Occupational exposure limit.  OSHA: U.S. Occupational Safety and Health Administration.  PEL: Permissible Exposure Limit.  REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.  SVHC: Substance of very high concern.  US DOT: United States Department of Transportation.  VOC: Volatile Organic Compound.  WEL: Workplace Exposure Limit.</p>
Text of Hazard Statements in Section 3	<p>Acute Tox. 4: H302 - Harmful if swallowed.  Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.  Aquatic Acute 1: H400 - Very toxic to aquatic life.  Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  Flam. Liq. 3: H226 - Flammable liquid and vapour.  Eye Dam. 1: H318 - Causes serious eye damage.  Flam. Liq. 2: H225 - Highly flammable liquid and vapour.</p>
Maximum content of VOC	3 %.

## Further information

	<p>DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.</p>
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