

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

**1.1. Product identifier**

Product form : Mixture  
 Product name : **Zani One-Step**  
 Product code : 285

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

Use of the substance/mixture : Quat Detergent Disinfectant

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

Crestek Cleaning Center, Inc.  
 1161 Kapiolani Blvd.  
 Honolulu, HI 96814  
 T 1-(808) 942-2500

**1.4. Emergency telephone number**

Emergency number : CHEMTEL: 800-255-3924

**SECTION 2: Hazards identification**

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

**Classification (GHS-US)**

Eye Irrit. 2A H319  
 Full text of H-phrases: see section 16

**2.2. Label elements**

**GHS-US labeling**

Hazard pictograms :



GHS07

Signal word : Warning  
 Hazard statements : Causes serious eye irritation.  
 Precautionary statements : Wash hands and forearms thoroughly after handling.  
 Wear eye protection, protective gloves.  
 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.

**2.3. Hazard not otherwise classified (HNOC)**

No additional information available

**2.4. Unknown acute toxicity (GHS-US)**

No data available

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

(NOTE: If component displays the \* (asterisk) symbol, the following statement applies.)

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-phrases: see section 16

**3.2. Mixture**

| Name   | Product identifier  | %       | Classification (GHS-US)  |
|--|---------------------|---------|--|
| 2-(2-butoxyethoxy)ethanol                        | (CAS No) 112-34-5   | 5 - 10  | Eye Irrit. 2A, H319  |
| tetrasodium ethylenediaminetetracetate           | (CAS No) 64-02-8    | 1 - 5   | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318                        |
| alkyl dimethyl benzyl ammonium chloride (C12-18) | (CAS No) 68391-01-5 | 0.1 - 1 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318 |

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| Name  | Product identifier             | %       | Classification (GHS-US)   |
|---|--------------------------------|---------|---|
| C12-C14-alkyl(ethylbenzyl)dimethylammonium chloride | (CAS No) 85409-23-0/68956-79-6 | 0.1 - 1 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

(NOTE: If component displays the \* (asterisk) symbol, the following statement applies.)

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  |
| First-aid measures after inhalation   | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.                                   |
| First-aid measures after skin contact | : If skin irritation or rash occurs: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation persists, get medical attention.                        |
| First-aid measures after eye contact  | : 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. |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.   |

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

|                                      |   |
|--------------------------------------|---|
| Symptoms/injuries                    | : Not expected to present a significant hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.                               |
| Symptoms/injuries after skin contact | : Slight irritation. Repeated exposure may cause skin dryness or cracking.  |
| Symptoms/injuries after eye contact  | : Causes serious eye irritation.  |
| Symptoms/injuries after ingestion    | : FOLLOWING SYMPTOMS MAY APPEAR LATER: Gastrointestinal complaints. Irritation of the gastric/intestinal mucosa. Irritation of the oral mucous membranes. Nausea. |

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Alcohol-resistant foam. BC powder. Carbon dioxide. Dry chemical powder. Sand/earth. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.  |

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.   |
| Other information              | : No additional information available.  |

### SECTION 6: Accidental release measures

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

General measures : Isolate from fire, if possible, without unnecessary risk.

##### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Protective goggles.<br>Protective gloves. |
| Emergency procedures | : Evacuate unnecessary personnel.           |

##### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area.                            |

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

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Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe mist. Ensure good ventilation of the work station. Observe normal hygiene standards. Provide local exhaust or general room ventilation. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Technical measures : Provide local exhaust or general room ventilation. Comply with applicable regulations.

Incompatible products : Strong acids. Oxidizing agent.

Storage area : Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| 2-(2-butoxyethoxy)ethanol (112-34-5) |                  |        |
|--------------------------------------|------------------|--------|
| ACGIH                                | ACGIH TWA (ppm)  | 10 ppm |
| ACGIH                                | ACGIH STEL (ppm) | 10 ppm |

### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Other information : When using, do not eat, drink or smoke.

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

Color : Clear light straw

Odor : Lavender

Odor threshold : No data available

pH : 11.5 - 12.5

Melting point : No data available

Freezing point : No data available

Boiling point : > 212 °F

Flash point : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosive limits : No data available

Vapor pressure : No data available

Vapor density : No data available

Specific Gravity @ 77° F : 1.005 - 1.025

Solubility : Soluble in water.

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|                                       |                     |
|---------------------------------------|---------------------|
| Partition Coefficient n-Octanol-Water | : No data available |
| Auto-ignition temperature             | : No data available |
| Decomposition temperature             | : No data available |
| Viscosity                             | : No data available |

### 9.2. Other information

|             |                    |
|-------------|--------------------|
| VOC content | : < 1 g/l CARB VOC |
|-------------|--------------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Oxidizers.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| <b>tetrasodium ethylenediaminetetracetate (64-02-8)</b>                            |  |
|--|--|
| LD50 oral rat  | > 2000 mg/kg (Rat)   |
| ATE US (oral)  | 500.000 mg/kg body weight  |
| <b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>  |  |
| LD50 oral rat  | 5660 mg/kg (Rat)   |
| LD50 dermal rabbit   | 2764 mg/kg (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity) |
| ATE US (oral)  | 5660.000 mg/kg body weight   |
| ATE US (dermal)  | 2764.000 mg/kg body weight   |
| <b>alkyl dimethyl benzyl ammonium chloride (C12-18) (68391-01-5)</b>               |  |
| ATE US (oral)  | 500.000 mg/kg body weight  |
| <b>C12-C14-alkyl(ethylbenzyl)dimethylammonium chloride (85409-23-0/68956-79-6)</b> |  |
| ATE US (oral)  | 500.000 mg/kg body weight  |
| ATE US (dermal)  | 1100.000 mg/kg body weight   |

|  |  |
|--|--|
| Skin corrosion/irritation                          | : Not classified<br>pH: 11.5 - 12.5  |
| Serious eye damage/irritation                      | : Causes serious eye irritation.<br>pH: 11.5 - 12.5                                  |
| Respiratory or skin sensitization                  | : Not classified   |
| Germ cell mutagenicity                             | : Not classified<br>Based on available data, the classification criteria are not met |
| Carcinogenicity                                    | : Not classified   |
| Reproductive toxicity                              | : Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure)   | : Not classified   |
| Specific target organ toxicity (repeated exposure) | : Not classified   |

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|   |   |
|---|---|
| Aspiration hazard                                   | : Not classified  |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met  |
| Symptoms/injuries after skin contact                | : Slight irritation. Repeated exposure may cause skin dryness or cracking.  |
| Symptoms/injuries after eye contact                 | : Causes serious eye irritation.  |
| Symptoms/injuries after ingestion                   | : FOLLOWING SYMPTOMS MAY APPEAR LATER: Gastrointestinal complaints. Irritation of the gastric/intestinal mucosa. Irritation of the oral mucous membranes. Nausea. |

### SECTION 12: Ecological information

#### 12.1. Toxicity

| <b>tetrasodium ethylenediaminetetracetate (64-02-8)</b> |  |
|---|--|
| LC50 fish 1   | 121 mg/l (96 h; Lepomis macrochirus; Soft water)   |
| EC50 Daphnia 1  | 625 mg/l (24 h; Daphnia magna)                     |
| LC50 fish 2   | 374 - 792 mg/l (96 h; Lepomis macrochirus; pH > 7) |
| Threshold limit algae 1                                 | > 100 mg/l (72 h; Scenedesmus subspicatus; Growth) |
| <b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>             |  |
| LC50 fish 1   | 1300 mg/l (96 h; Lepomis macrochirus)              |
| LC50 other aquatic organisms 1                          | 10 - 100 mg/l (96 h)                               |
| EC50 Daphnia 1  | 2850 mg/l (24 h; Daphnia magna; GLP)               |
| LC50 fish 2   | 1805 mg/l (48 h; Leuciscus idus)                   |
| EC50 Daphnia 2  | > 100 mg/l (48 h; Daphnia magna)                   |
| TLM fish 1  | 10 - 100,96 h; Pisces                              |
| TLM other aquatic organisms 1                           | 10 - 100,96 h                                      |
| Threshold limit other aquatic organisms 1               | 10 - 100,96 h                                      |
| Threshold limit algae 1                                 | 53 mg/l (192 h; Microcystis aeruginosa)            |
| Threshold limit algae 2                                 | >= 100 mg/l (96 h; Scenedesmus subspicatus)        |

#### 12.2. Persistence and degradability

| <b>tetrasodium ethylenediaminetetracetate (64-02-8)</b> |  |
|---|--|
| Persistence and degradability                           | Not readily biodegradable in water.  |
| Biochemical oxygen demand (BOD)                         | < 0.002 g O <sub>2</sub> /g substance  |
| Chemical oxygen demand (COD)                            | 0.54 - 0.58 g O <sub>2</sub> /g substance  |
| <b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>             |  |
| Persistence and degradability                           | Readily biodegradable in water. Biodegradable in the soil. No (test) data on mobility of the substance available. Photodegradation in the air. |
| Biochemical oxygen demand (BOD)                         | 0.25 g O <sub>2</sub> /g substance   |
| Chemical oxygen demand (COD)                            | 2.08 g O <sub>2</sub> /g substance   |
| ThOD  | 2.173 g O <sub>2</sub> /g substance  |
| BOD (% of ThOD)   | 0.11 % ThOD  |

#### 12.3. Bioaccumulative potential

| <b>tetrasodium ethylenediaminetetracetate (64-02-8)</b> |  |
|---|--|
| Log Pow   | -2.6   |
| Bioaccumulative potential                               | Bioaccumulation: not applicable.                 |
| <b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>             |  |
| BCF fish 1  | 0.46 (QSAR)                                      |
| Log Pow   | 0.56 (Experimental value)                        |
| Bioaccumulative potential                               | Low potential for bioaccumulation (Log Kow < 4). |

#### 12.4. Other adverse effects

|                   |                                     |
|-------------------|-------------------------------------|
| Other information | : Avoid release to the environment. |
|-------------------|-------------------------------------|

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with Local, State, and Federal regulations.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

#### 14.1. UN Number

UN-No.(DOT) : Not Regulated  
Other information : No supplementary information available

#### 14.2. UN proper shipping name

DOT Proper Shipping Name : Not Regulated

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory

##### tetrasodium ethylenediaminetetracetate (64-02-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
SARA Section 311/312 Hazard Classes : Immediate (acute) health hazard

##### 2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on SARA Section 313 (Specific toxic chemical listings)  
SARA Section 311/312 Hazard Classes : Immediate (acute) health hazard  
Delayed (chronic) health hazard

##### alkyl dimethyl benzyl ammonium chloride (C12-18) (68391-01-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
SARA Section 311/312 Hazard Classes : Immediate (acute) health hazard

##### C12-C14-alkyl(ethylbenzyl)dimethylammonium chloride (85409-23-0/68956-79-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
SARA Section 311/312 Hazard Classes : Immediate (acute) health hazard

#### 15.2. International regulations

##### CANADA

##### EU-Regulations

No additional information available

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. National regulations

EPA Registration Number : 1839-83-69410

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### EPA Comments

: This chemical is a pesticide 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 pesticide label also includes other important information, including directions for use.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

KEEP OUT OF REACH OF CHILDREN. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Prop 65 Comments

:Formaldehyde (CAS#50-00-0): < 42 ppm

## SECTION 16: Other information

Abbreviations Legend:

|                       |  |
|-----------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4                               |
| Acute Tox. 4 (Oral)   | Acute toxicity (oral) Category 4                                 |
| Aquatic Acute 1       | Hazardous to the aquatic environment - Acute Hazard Category 1   |
| Aquatic Chronic 1     | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Eye Dam. 1            | Serious eye damage/eye irritation Category 1                     |
| Eye Irrit. 2A         | Serious eye damage/eye irritation Category 2A                    |
| Skin Corr. 1B         | Skin corrosion/irritation Category 1B                            |
| Skin Corr. 1C         | Skin corrosion/irritation Category 1C                            |
| H302                  | Harmful if swallowed   |
| H312                  | Harmful in contact with skin                                     |
| H314                  | Causes severe skin burns and eye damage                          |

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|      |  |
|------|--|
| H318 | Causes serious eye damage                            |
| H319 | Causes serious eye irritation                        |
| H400 | Very toxic to aquatic life                           |
| H410 | Very toxic to aquatic life with long lasting effects |

### Disclaimer

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ALL NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE 1-(808) 942-2500

Revision date: 04/08/2015      Supersedes: 01/08/2012      Version: 1.0