SECTION 1: Product and Company Identification

1.1. Product identifier
Product name: Injectone Detergent

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Dry cleaning fluids and detergents

1.3. Details of the supplier of the safety data sheet
ROYALTONE, Inc.
7211 N. Harrison Ave.
Shawnee, OK 74804 - USA
T 1-405-878-0537
Royaltone@royaltone.com

1.4. Emergency telephone number
Emergency number: 1-405-878-0577

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (GHS)
Eye Irrit. 2A H319

2.2. Label elements
GHS labeling
Hazard pictograms (GHS):

Signal word (GHS): Warning
Hazard statements (GHS): H319 - Causes serious eye irritation
Precautionary statements (GHS):
P264 - Wash hands thoroughly after handling
P280 - Wear eye protection, protective gloves
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards
Other hazards not contributing to the classification: May cause slight irritation to the skin.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS (Chemical Abstracts Service) number</th>
<th>%</th>
<th>Classification (GHS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cationic surfactant*</td>
<td></td>
<td>7-10</td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Non-ionic surfactant*</td>
<td></td>
<td>7-10</td>
<td>Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

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

Full text of H-phrases: see section 16

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: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact: 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. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after eye contact: Causes serious eye irritation.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Heat from fire may generate flammable vapor.
Reactivity: Stable: Not reactive when mixed with water.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
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
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.

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: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures: Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Sources of ignition. Keep container closed when not in use.
Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition. Direct sunlight.
Storage temperature: 5 - 30 °C
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th></th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injectone Detergent</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Non-ionic surfactant</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Cationic surfactant</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

- Appropriate engineering controls: Ensure good ventilation of the work station.
- Personal protective equipment: Avoid all unnecessary exposure.
- Hand protection: Wear protective gloves.
- Eye protection: Chemical goggles or safety glasses.
- Respiratory protection: Wear appropriate mask.
- Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless to slightly yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>&lt; 0</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>149 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt; 33 mm Hg @ 25 °C</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.9</td>
</tr>
<tr>
<td>Specific gravity / density</td>
<td>0.904 g/ml @ 25 °C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Heat from fire may generate flammable vapor.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available
### SECTION 10: Stability and reactivity

10.1. Reactivity
Stable: Not reactive when mixed with water.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None under normal use.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

**Acute toxicity**
- Not classified

<table>
<thead>
<tr>
<th>Non-ionic surfactant</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1800 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 3000 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>1800.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

- Skin corrosion/irritation: Not classified
- Serious eye damage/irritation: Causes serious eye irritation.
- Respiratory or skin sensitization: Not classified
- Germ cell mutagenicity: Not classified
- Carcinogenicity: Not classified
- Reproductive toxicity: Not classified
- Specific target organ toxicity (single exposure): Not classified
- Specific target organ toxicity (repeated exposure): Not classified

**Symptoms/injuries after eye contact**
- Causes serious eye irritation.

### SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Non-ionic surfactant</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 10 mg/l (96 h; Lepomis macrochirus; Toxicity test)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>26 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
<td>10 mg/l (336 h; Lemna sp.; Biomass)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>8.9 mg/l (96 h; Pimephales promelas)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>500 mg/l (504 h; Selenastrum capricornutum; Cell numbers)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

- **Injectone Detergent**
  - Persistence and degradability: Not established.

- **Non-ionic surfactant**
  - Persistence and degradability: Biodegradable in water.
  - ThOD: 2.16 g O₂/g substance

12.3. Bioaccumulative potential

- **Injectone Detergent**
  - Bioaccumulative potential: Not established.
**Injectone Detergent**  
Safety Data Sheet  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Non-ionic surfactant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil
No additional information available.

### 12.5. Other adverse effects
Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Waste disposal recommendations** : Dispose in a safe manner in accordance with local/national regulations.

**Ecology - waste materials** : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with US Dept. of Transportation (DOT)

**Not regulated for transport**

**Additional information**

**Other information** : No supplementary information available.

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

**Injectone Detergent**

<table>
<thead>
<tr>
<th>SARA Section 311/312 Hazard Classes</th>
<th>Immediate (acute) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory</td>
<td></td>
</tr>
</tbody>
</table>

- **Isopropyl alcohol (67-63-0)**
  
  Listed on United States SARA Section 313

#### 15.3. US State regulations

- **California Proposition 65** - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

- **Isopropyl alcohol (67-63-0)**
  
  U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

**Full text of H-phrases:**

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

**HMIS III Rating**

- **Health** : 2 Moderate Hazard - Temporary or minor injury may occur
- **Flammability** : 1 Slight Hazard
- **Physical** : 0 Minimal Hazard
- **Personal protection** : B

Royaltone SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore be construed as guaranteeing any specific property of the product.*