SECTION 1: Identification

1.1. Identification

Product form: Mixture
Product name: UV743E Invisible Skin Marking Ink 16oz.
Product code: UV743E UV743EL

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

No additional information available

1.3. Details of the supplier of the safety data sheet

SIRCHIE Finger Print Laboratories
100 Hunter Place
Youngsville, NC 27596 - USA
T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181
http://www.sirchie.com

1.4. Emergency telephone number

Emergency number: 1.800.424.9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification
Flammable liquids Category 2  H225
Full text of H statements: see section 16

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US):

![Hazard Pictogram](image)

Signal word (GHS-US): Danger
Hazard statements (GHS-US): H225 - Highly flammable liquid and vapor
Precautionary statements (GHS-US):
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P280 - Wear eye protection, protective gloves
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P370+P378 - In case of fire: Use CO2, Dry chemical, foam, water spray to extinguish
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container to local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture
UV743E Invisible Skin Marking Ink 16oz.
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>(CAS No) 64-17-5</td>
<td>93.8</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td>AQUA</td>
<td>(CAS No) 7732-18-5</td>
<td>5</td>
<td>Not classified</td>
</tr>
<tr>
<td>disodium 4,4'-(bis[4-anilino-6-[[2-carbamoylethyl][2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino)stilbene-2,2'-disulphonate</td>
<td>(CAS No) 27344-06-5</td>
<td>1.2</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

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: Allow victim to breathe fresh air. 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 immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

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.

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

No additional information available

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

Reactivity: No reactivity hazard other than the effects described in sub-sections below.

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.
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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: Keep container closed when not in use.
Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH</th>
<th>ACGIH STEL (ppm)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol (64-17-5)</td>
<td></td>
<td>1000 ppm (Ethanol; USA; Short time value; TLV - Adopted Value)</td>
<td></td>
</tr>
<tr>
<td>AQUA (7732-18-5)</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>disodium 4,4’-bis[[4-anilino-6-[(2-carbamoylethyl)(2-hydroxyethyl)amino]-1,3,5,,-triazin-2-yl]amino]stilbene-2,2’-disulphonate (27344-06-5)</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Personal protective equipment: Gloves. Safety glasses.

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>Appearance</td>
<td>Yellow liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic Alcohol odour</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>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water. Water: Solubility in water of component(s) of the mixture: • ethanol: Complete • disodium 4,4’-bis[[4-anilino-6-[(2-carbamoylethyl)(2-hydroxyethyl)amino]-1,3,5,,-triazin-2-yl]amino]stilbene-2,2’-disulphonate: 0.19 g/100ml</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability
Not established.

10.3. Possibility of hazardous reactions
Not established.

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

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

ethanol (64-17-5)

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 16000 mg/kg (Rabbit; Literature study)</td>
</tr>
</tbody>
</table>

disodium 4,4'-bis[[4-anilino-6-[(2-carbamoylethyl)(2-hydroxyethyl)amino]-1,3,5,-triazin-2-yl]amino]stilbene-2,2'-disulphonate (27344-06-5)

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Based on available data, the classification criteria are not met

Additional information
Ethyl alcohol (200 Proof) has been shown to cause cancer in Human and Animals when ingested in volume over time. There is no link to cancer in limited exposure scenarios.

IARC group
1 - Carcinogenic to humans

Reproductive toxicity : Not classified
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

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
# SECTION 12: Ecological information

## 12.1. Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 (mg/l)</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ethanol</strong> (64-17-5)</td>
<td>14200</td>
<td>US EPA; Pimephales promelas; Flow-through system; Fresh water; Experimental value</td>
</tr>
<tr>
<td><strong>disodium 4,4'-bis[[4-anilino-6-[(2-carbamoyl)ethyl][2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate</strong> (27344-06-5)</td>
<td>&gt; 100</td>
<td>OECD 203: Fish, Acute Toxicity Test; Oncorhynchus mykiss; Static system; Fresh water; Experimental value</td>
</tr>
<tr>
<td><strong>disodium 4,4'-bis[[4-anilino-6-[(2-carbamoyl)ethyl][2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate</strong> (27344-06-5)</td>
<td>&gt; 100</td>
<td>OECD 202: Daphnia sp. Acute Immobilisation Test; Daphnia magna; Static system; Fresh water; Experimental value</td>
</tr>
<tr>
<td><strong>disodium 4,4'-bis[[4-anilino-6-[(2-carbamoyl)ethyl][2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate</strong> (27344-06-5)</td>
<td>&gt; 1000</td>
<td>OECD 203: Fish, Acute Toxicity Test; Brachydanio rerio; Static system; Fresh water; Experimental value</td>
</tr>
<tr>
<td><strong>disodium 4,4'-bis[[4-anilino-6-[(2-carbamoyl)ethyl][2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate</strong> (27344-06-5)</td>
<td>&gt; 100</td>
<td>OECD 201: Alga, Growth Inhibition Test; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value</td>
</tr>
<tr>
<td><strong>disodium 4,4'-bis[[4-anilino-6-[(2-carbamoyl)ethyl][2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate</strong> (27344-06-5)</td>
<td>&gt; 100</td>
<td>OECD 201: Alga, Growth Inhibition Test; Desmodesmus subspicatus; Static system; Fresh water; Experimental value</td>
</tr>
</tbody>
</table>

## 12.2. Persistence and degradability

### UV743E Invisible Skin Marking Ink 16oz.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ethanol</strong> (64-17-5)</td>
<td>Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.</td>
</tr>
<tr>
<td><strong>disodium 4,4'-bis[[4-anilino-6-[(2-carbamoyl)ethyl][2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate</strong> (27344-06-5)</td>
<td>Not readily biodegradable in water. Low potential for bioaccumulation</td>
</tr>
</tbody>
</table>

### Bioaccumulative potential

#### UV743E Invisible Skin Marking Ink 16oz.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ethanol</strong> (64-17-5)</td>
<td>Not established.</td>
</tr>
<tr>
<td><strong>disodium 4,4'-bis[[4-anilino-6-[(2-carbamoyl)ethyl][2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate</strong> (27344-06-5)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

### Mobility in soil

#### UV743E Invisible Skin Marking Ink 16oz.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ethanol</strong> (64-17-5)</td>
<td>Surface tension: 0.022 N/m (20 °C)</td>
</tr>
<tr>
<td><strong>disodium 4,4'-bis[[4-anilino-6-[(2-carbamoyl)ethyl][2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate</strong> (27344-06-5)</td>
<td>Adherence to soil: Log Koc = -0.31</td>
</tr>
</tbody>
</table>

### Other adverse effects

<table>
<thead>
<tr>
<th>Substance</th>
<th>Other adverse effects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ethanol</strong> (64-17-5)</td>
<td>Surface tension: 0.022 N/m (20 °C)</td>
</tr>
<tr>
<td><strong>disodium 4,4'-bis[[4-anilino-6-[(2-carbamoyl)ethyl][2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate</strong> (27344-06-5)</td>
<td>Adherence to soil: Log Koc = -0.31</td>
</tr>
</tbody>
</table>
UV743E Invisible Skin Marking Ink 16oz.
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Effect on the global warming : No known ecological damage caused by this product.
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

Department of Transportation (DOT)
In accordance with DOT
Transport document description : UN1170 Ethanol Solution (FLAMMABLE LIQUID), 3, II
UN-No.(DOT) : UN1170
Proper Shipping Name (DOT) : Ethanol Solution
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT) : 3 - Flammable liquid

Packing group (DOT) : II - Medium Danger
Other information : No supplementary information available.

TDG
No additional information available

Transport by sea
No additional information available

Air transport
UN-No. (IATA) : UN1170
Proper Shipping Name (IATA) : Ethanol solution
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

UV743E Invisible Skin Marking Ink 16oz.
Subject to reporting requirements of United States SARA Section 313
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

National regulations

UV743E Invisible Skin Marking Ink 16oz.
Listed on IARC (International Agency for Research on Cancer)
UV743E Invisible Skin Marking Ink 16oz.
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### 15.3. US State regulations

<table>
<thead>
<tr>
<th>UV743E Invisible Skin Marking Ink 16oz.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Carcinogens List</td>
<td>Yes</td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Developmental Toxicity</td>
<td>No</td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</td>
<td>No</td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</td>
<td>No</td>
</tr>
</tbody>
</table>

### SECTION 16: Other information


**Training advice**: Ensure operators understand the flammability hazard. Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.

**Other information**: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.

**Full text of H-phrases**:

<table>
<thead>
<tr>
<th>H225</th>
<th>Highly flammable liquid and vapor</th>
</tr>
</thead>
</table>

**NFPA health hazard**: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

**NFPA fire hazard**: 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

**NFPA reactivity**: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

**HMIS III Rating**

**Health**: 1 Slight Hazard - Irritation or minor reversible injury possible

**Flammability**: 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)

**Physical**: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

**Personal Protection**

G - Safety glasses, Gloves, Vapor respirator

**SDS US (GHS HazCom 2012)**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.