Fluorescein Green Concentrate
Safety Data Sheet
Revision date: 2/18/2013

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

1.1. Product identifier
Product name: Fluorescein Green Concentrate

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Gage Fluid

1.3. Details of the supplier of the safety data sheet
Dwyer Instruments, Inc.
102 Highway 212
Michigan City, IN 46361
T 219-879-8868 - F 219-872-9057

1.4. Emergency telephone number
Emergency number: Call CHEMTREC day or night. Domestic North America call- 800-424-9300; International call - 703-527-3887 (collect accepted)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Skin Irrit. 2 H315
Eye Irrit. 2B H320
STOT SE 3 H335

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US): 

Signal word (GHS-US): Warning
Hazard statements (GHS-US): H315 - Causes skin irritation
H320 - Causes eye irritation
H335 - May cause respiratory irritation
Precautionary statements (GHS-US): P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash ... thoroughly after handling
P571 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
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
P312 - Call a POISON CENTER/doctor/.../if you feel unwell
P321 - Specific treatment (see ... on this label)
P332+P337 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to ...

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No.) 7732-18-5</td>
<td>15-40</td>
<td>Not classified</td>
</tr>
<tr>
<td>Tergitol No. 4</td>
<td>(CAS No.) 139-88-8</td>
<td>15-40</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>
Fluorescein Green Concentrate
Safety Data Sheet

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monoethyl ether</td>
<td>(CAS No.) 111-90-0</td>
<td>15-40</td>
<td>Flam. Liq. 4, H227, Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>(CAS No.) 7647-14-5</td>
<td>0.1-1</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>(CAS No.) 7757-82-6</td>
<td>0.1-1</td>
<td>Not classified</td>
</tr>
<tr>
<td>Cuprate(2-)[29H,31H-phthalocyanine-C.C-disulfonato(4)-N29,N30,N31,N32]-, disodium</td>
<td>(CAS No.) 1330-38-7</td>
<td>0.1-1</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium fluorescein</td>
<td>(CAS No.) 518-47-8</td>
<td>0.1-1</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

First-aid measures after skin contact: For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

First-aid measures after eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.

First-aid measures after ingestion: If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting unless directed to do so by medical personnel.

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

Symptoms/injuries after inhalation: May cause respiratory tract irritation.

Symptoms/injuries after skin contact: May cause skin irritation.

Symptoms/injuries after eye contact: May cause eye irritation.

Symptoms/injuries after ingestion: Not considered a likely route of exposure under normal product use conditions. If swallowed, may cause gastrointestinal irritation.

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: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: None.

5.2. Special hazards arising from the substance or mixture

Fire hazard: None known.

Explosion hazard: None known.

5.3. Advice for firefighters

Protection during firefighting: Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid contact with the skin and the eyes. Wear appropriate protective clothing and respiratory protection for the situation.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Stop the flow of material, if this is without risk.

Methods for cleaning up: Absorb spill with inert material. Shovel or sweep up and put in a closed container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep the container tightly closed and in a cool, well-ventilated place.
7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No exposure limits have been established for any of this product's components.

8.2. Exposure controls

Appropriate engineering controls: Ensure exposure is below occupational exposure limits (where available).

Hand protection: Use impervious gloves such as neoprene, nitrile, or rubber for hand protection.

Eye protection: Wear safety glasses; chemical goggles (if splashing is possible).

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: Green

Odour: Characteristic

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Self ignition temperature: No data available

Decomposition temperature: No data available

flammability (solid, gas): No data available

Vapour pressure: No data available

Relative vapour density at 20 °C: No data available

Relative density: No data available

Solubility: Soluble.

Log Pow: No data available

Log Kow: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidising properties: No data available

Explosive limits: No data available

9.2. Other information
No additional information available

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
Will not occur.

10.4. Conditions to avoid
None.

10.5. Incompatible materials
Oxidizing materials.

10.6. Hazardous decomposition products
Decomposes to form toxic compounds.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

<table>
<thead>
<tr>
<th>Sodium sulfate (7757-82-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 10000 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diethylene glycol monoethyl ether (111-90-0)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1920 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>6 ml/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>4200 µl/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 5240 mg/m³ (Exposure time: 4 h)</td>
</tr>
<tr>
<td>ATE (oral)</td>
<td>1920 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water (7732-18-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 90 ml/kg</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Sodium chloride (7647-14-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>3 g/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 10 g/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 42 g/m³ (Exposure time: 1 h)</td>
</tr>
<tr>
<td>ATE (oral)</td>
<td>3000000 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tergitol No. 4 (139-88-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1250 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>3 ml/kg</td>
</tr>
<tr>
<td>ATE (oral)</td>
<td>1250 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sodium fluorescein (518-47-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>6721 mg/kg</td>
</tr>
<tr>
<td>ATE (oral)</td>
<td>6721 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cuprate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, disodium (1330-38-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5 g/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes eye irritation.
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): May cause respiratory irritation.
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Sodium sulfate (7757-82-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>13500 - 14500 mg/l (Exposure time: 96 h - Species: Pimephales promelas)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>630 mg/l (Exposure time: 96 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>&gt; 6800 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>2564 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diethylene glycol monoethyl ether (111-90-0)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>11400 - 15700 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>3940 - 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>11600 - 16700 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sodium chloride (7647-14-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>5560 - 6080 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
</tbody>
</table>
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### Sodium chloride (7647-14-5)
EC50 Daphnia 2: 340.7 - 469.2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

#### 12.2. Persistence and degradability
No additional information available

#### 12.3. Bioaccumulative potential

**Diethylene glycol monoethyl ether (111-90-0)**

- Log Pow: -0.8

**Sodium chloride (7647-14-5)**

- BCF fish 1: (no bioaccumulation)

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

#### 12.5. Other adverse effects
No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods
Waste disposal recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 14: Transport information

#### 14.1. UN number
Not applicable

#### 14.2. UN proper shipping name
Not applicable

#### 14.3. Additional information
Other information: No supplementary information available.

**Overland transport**
No additional information available

**Transport by sea**
No additional information available

**Air transport**
No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

**Sodium sulfate (7757-82-6)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Diethylene glycol monoethyl ether (111-90-0)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Water (7732-18-5)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Sodium chloride (7647-14-5)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Tergitol No. 4 (139-88-8)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Sodium fluorescein (518-47-8)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Cuprate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, disodium (1330-38-7)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

**CANADA**
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Sodium sulfate (7757-82-6)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Diethylene glycol monoethyl ether (111-90-0)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification Class B Division 3 - Combustible Liquid

Water (7732-18-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Sodium chloride (7647-14-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Tergitol No. 4 (139-88-8)
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Sodium fluorescein (518-47-8)
Listed on the Canadian DSL (Domestic Substances List) inventory.

Cuprate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, disodium (1330-38-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification Uncontrolled product according to WHMIS classification criteria

15.3. US State regulations

Sodium sulfate (7757-82-6)
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) List

Diethylene glycol monoethyl ether (111-90-0)
U.S. - Minnesota - Hazardous Substance List

Sodium chloride (7647-14-5)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

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 Irrit. 2B</td>
<td>Serious eye damage/eye irritation Category 2B</td>
</tr>
<tr>
<td>Flamm. Liq. 4</td>
<td>Flammable liquids Category 4</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

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 not therefore be construed as guaranteeing any specific property of the product.