SAFETY DATA SHEET

Product name: Oreq Test Solution #2 Phenol Red Reagent

Chemical Name: Sulfonphthalein dye solution
Synonyms: Phenol Red Reagent
Chemical Formula: Not Available
CAS Number: Not Available
Product Use: For pH Test in Swimming Pools/Spas

Supplier: Oreq Corporation
42306 Remington Avenue
Temecula, CA 92590
951-296-5076

Emergency Phone#: Chemtrec: 1-800-424-9300

Section 2 Hazards identification

EMERGENCY OVERVIEW

WARNING

Appearance – Red Color
Physical State – Liquid
Odor - None

GHS Classification
Skin Corrosion/irritation: (Category 2) Serious eye damage/eye irritation (Category 2A)
Specific target organ toxicity (single exposure) (Category 3)

Hazard Statement(s)
H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

Precautionary Statement(s)

Prevention
P264: Wash face, hands and any exposed skin thoroughly after handling
P261: Avoid breathing dust/fume/gas/mist/vapors/spray
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response
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+313 If eye irritation persists: Get medical advice/attention.

Page 1 of 8
P302+352 IF ON SKIN: Wash with plenty of soap and water
P332+313 If skin irritation occurs: Get medical advice/attention
P362+364 Take off contaminated clothing and wash before reuse
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P309+P311: IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.
P363: Wash contaminated clothing before re-use.

Section 3 Composition / Information on ingredients

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS#</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol Red</td>
<td>143-74-8</td>
<td>Less than 0.1%</td>
</tr>
<tr>
<td>Water</td>
<td>7232-18-5</td>
<td>Up to 100%</td>
</tr>
</tbody>
</table>

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition.
If the classifier has reason to suspect that an ingredient present at a concentration <1% will affect classification of the mixture for skin or eye corrosion/irritation, that ingredient shall also be considered relevant as defined in 29CFR 1910.1200 Appendix A.

Section 4 First - aid measures

**First aid measures**

General Advice: Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If symptoms persist, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

Symptoms: Causes serious eye irritation. Causes skin irritation. May cause irritation of respiratory tract.

**Indication of any immediate medical attention and special treatment needed**

Notes to Physician: Treat symptomatically
Product name   Oreq Test Solution #2
Phenol Red Reagent

Revision date  5-22-15

Section 5  Fire - fighting measures

Extinguishing Media

Suitable Extinguishing Media:   Dry chemical. Carbon dioxide (CO2). Water spray. Foam.

Unsuitable Extinguishing Media:   No information available.

Hazardous Combustion Products:   Carbon oxides; Sulfur oxides

Special Protective Equipment for Firefighters:   As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6  Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions:   Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Avoid dust formation. Remove all sources of ignition.

Environmental precautions   Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment   Prevent further leakage or spillage if safe to do so.

Methods for cleaning up   Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

Section 7  Handling and storage

Precautions for safe handling

Handling   Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

Storage   Keep containers tightly closed in a dry, cool, and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. Do not store in metal containers. Keep out of the reach of children.

Incompatible Products   Oxidizing agents.
SAFETY DATA SHEET

**Product name**
Oreq Test Solution #2
Phenol Red Reagent

**Revision date**
5-22-15

Section 8 Exposure controls / personal protection

Control parameters

**United States**

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol Red - 143-74-8</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Canada**

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol Red - 143-74-8</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Australia and Mexico**

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol Red - 143-74-8</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Measures
- Showers
- Eyewash stations
- Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face Protection**
- Safety glasses with side-shields. Goggles

**Skin and body protection**
- Long sleeved clothing. Gloves

**Respiratory protection**
- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hygiene measures:**
- Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.
- Wash hands before breaks and immediately after handling the product.

Section 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>United States</th>
<th>Melting point/freezing point</th>
<th>Canada</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
<td>No information available</td>
<td>No information available</td>
<td>Alberta</td>
<td>None</td>
</tr>
<tr>
<td><strong>Boiling Point/Range</strong></td>
<td>100 °C / 212 °F</td>
<td>Flash point</td>
<td>British Columbia</td>
<td>None</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No information available</td>
<td>No information available</td>
<td>Ontario</td>
<td>None</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No information available</td>
<td>Flammability Limit in Air</td>
<td>Quebec</td>
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<tr>
<td><strong>Lower flammability limit:</strong></td>
<td>No information available</td>
<td>Upper flammability limit:</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Specific gravity</strong></td>
<td>No information available</td>
<td>Vapor pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
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<td>Water solubility</td>
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</table>
SAFETY DATA SHEET

Product name          Oreq Test Solution #2
                     Phenol Red Reagent

Revision date        5-22-15

Section 9  Physical and chemical properties  (Continued)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Solubility in other solvents</td>
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<tr>
<td>Autoignition temperature</td>
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<tr>
<td>Explosive properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Softening point</td>
<td>No information available</td>
</tr>
<tr>
<td>VOC Content</td>
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</tr>
<tr>
<td>Bulk density</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
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</tr>
<tr>
<td>Molecular weight</td>
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</tr>
<tr>
<td>Density</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Section 10  Stability and reactivity

Reactivity
Reactive with oxidizing agents

Chemical stability
Stability: Stable under recommended storage conditions.

Possible Hazardous Reactions:
Hazardous polymerization does not occur

Conditions to avoid:

Incompatible Materials:
Oxidizing agents.

Hazardous decomposition products:

Section 11  Toxicological information

Information on likely routes of exposure

Principal Routes of Exposure:
Inhalation. Ingestion.

Acute Toxicity
Component Information

Phenol Red - 143-74-8

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 752 mg/kg Intravenous. LD50 Rat
1368 mg/kg Intravenous LD50 Mouse
> 600 mg/kg subcutaneous. LD50 Rat
Product name: Oreq Test Solution #2
Phenol Red Reagent

Revision date: 5-22-15

Section 11 Toxicological information (Continued)

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms
Skin Contact: Causes skin irritation.
Eye Contact: Causes eye irritation.
Inhalation Inhalation of dust may cause respiratory tract irritation.
Ingestion May cause digestive (gastrointestinal) tract irritation. It may affect the urinary system.
Aspiration hazard No information available

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

Chronic Toxicity No information available
Sensitization: No information available
Mutagenic Effects: May affect genetic material. Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects
Carcinogenic effects: Not considered carcinogenic
SAFETY DATA SHEET

Product name   Oreq Test Solution #2
Phenol Red Reagent

Revision date  5-22-15

Section 12 Ecological information

Ecotoxicity
Ecotoxicity effects:  No data available.
Persistence and degradability:  No information available
Bioaccumulative potential:  No information available
Mobility:  No information available

Section 13 Disposal considerations

Waste Disposal Method  Dispose according to federal, state, and local regulations.
Contaminated packaging  Empty containers should be taken for local recycling, recovery or waste disposal

Section 14 Transport information

DOT  NOT REGULATED
TDG  NOT REGULATED
ADR  NOT REGULATED
IMO/IMDG  NOT REGULATED
RID  NOT REGULATED
ICAO  NOT REGULATED
IATA  NOT REGULATED

Section 15 Regulatory information

International Inventories
TSCA  Complies
DSL/NDSL  Complies
EINECS/ELINCS  Complies
ENCS  Complies
IECSC  Complies
KECL  Complies
PICCS  Complies
AICS  Complies

U.S. Federal Regulations

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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</thead>
<tbody>
<tr>
<td>Phenol Red</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
**Product name**  
Oreq Test Solution #2  
Phenol Red Reagent

**Revision date**  
5-22-15

### Section 15  Regulatory information  (Continued)

#### US TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) -Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol Red</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Canada**

**WHMIS hazard class:**  
Non-controlled

**Canada Controlled Products Regulation:**  
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**U.S. State Regulations**

**California Proposition 65**

**Chemicals Known to the State of California to Cause Cancer:**  
This product does not contain a chemical requiring a warning under California Prop. 65.

### Section 16  Other information

**DATE OF PREPARATION**  
5-22-15

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