SAFETY DATA SHEET

Revision date 28-Mar-2015

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Code 1935.32
Product Name F RED OXIDE

Other means of identification
No information available

Recommended use of the chemical and restrictions on use
Tint, colorant

Details of the supplier of the safety data sheet
See section 16 for more information
Color Corporation of America
1400 N. State St.
Marengo, IL 60152
1-800-654-4242

E-mail address sds@ccofa.com

Emergency telephone number
United States of America 1-888-345-5732
American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands 1-800-255-3924

Section 2: HAZARDS IDENTIFICATION

Classification
Serious eye damage/eye irritation Category 1
Carcinogenicity Category 2

Label elements

Signal word DANGER

Hazard Statements
Causes serious eye damage
Suspected of causing cancer
Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>10 - 25</td>
</tr>
<tr>
<td>Ethoxylated alkylphenol</td>
<td>Proprietary</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>3 - 5</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>3 - 5</td>
</tr>
<tr>
<td>Alkoxylated Alcohol Derivative</td>
<td>Proprietary</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: FIRST AID MEASURES

First Aid Measures

General advice
If exposed or concerned: Get medical advice/attention.

Eye contact
If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact
Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

Inhalation
If INHALED: Call a POISON CENTER or doctor if you feel unwell.

Ingestion
Do NOT induce vomiting. If SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms and effects, both acute and delayed

Symptoms  No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians  Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media
Dry chemical, CO2, water spray or alcohol-resistant foam.

Not to be used for safety reasons: Strong water jet

Specific hazards arising from the chemical
Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes.

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Avoid breathing vapors or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

For emergency responders
Use personal protection recommended in Section 8.

Environmental precautions
Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

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
Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations
When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.
Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits
If S* appears in the OEL table, it indicates this chemical contains a skin notation.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>Ceiling: 100 mg/m³</td>
<td>TWA: 10 mg/m³</td>
<td>IDLH: 5000 mg/m³</td>
</tr>
<tr>
<td>107-21-1</td>
<td>*</td>
<td>aerosol only</td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 15 mg/m³ total dust</td>
<td></td>
</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Controls
Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection
Tight sealing safety goggles.

Skin and body protection
Wear suitable protective clothing.

Hand Protection
There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

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

Thermal Protection
No information available

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Color</td>
<td>red</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH value</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No information available °C / °F</td>
</tr>
<tr>
<td>flash point</td>
<td>116 °C / 241 °F</td>
</tr>
<tr>
<td>evaporation rate</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Product Code 1935.32
### Flammability (solid, gas)
No information available

### Flammability Limit in Air
#### Upper flammability limit:  
No information available
#### Lower flammability limit:  
No information available

### Vapor Pressure
No information available

### Density (lbs per US gallon)
16.52

### Specific gravity
1.98

### Solubility
No information available

### Partition coefficient
No information available

### Autoignition temperature
No information available

### Decomposition temperature
No information available

### Kinematic viscosity
No information available

### Dynamic viscosity
No information available

### Other information

#### Section 10: STABILITY AND REACTIVITY

**Reactivity**  
No information available.

**Chemical stability**  
Stable under normal conditions.

**Possibility of Hazardous Reactions**  
None under normal processing.

**Hazardous polymerization**  
None under normal processing.

**Conditions to avoid**  
Heat, flames and sparks.

**Incompatible materials**  

**Hazardous Decomposition Products**  

#### Section 11: TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Eye contact**  
Causes serious eye damage

**Skin Contact**  
Not applicable

**Ingestion**  
Not applicable

**Inhalation**  
Not applicable

**Numerical measures of toxicity - Component Information**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>4000 - 10200 mg/kg (Rat)</td>
<td>= 10600 mg/kg (Rat)</td>
<td>-</td>
</tr>
<tr>
<td>Ethoxylated alkylphenol</td>
<td>= 2590 mg/kg (Rat)</td>
<td>= 1780 µL/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>= 12565 mg/kg (Rat)</td>
<td>= 11890 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Alkoxylated Alcohol Derivative</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)  
2119 Mg/kg

**Product Code** 1935.32  
AGHS - USA OSHA SDS
Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td></td>
<td>Group 2B</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans.

OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present.

Skin corrosion/irritation Not applicable
Serious eye damage/eye irritation Causes serious eye damage
Skin sensitization Not applicable
Respiratory sensitization Not applicable
Germ cell mutagenicity Not applicable
Carcinogenicity Suspected of causing cancer
Reproductive Toxicity Not applicable
Specific target organ toxicity (single exposure) Not applicable
Specific target organ toxicity (repeated exposure) Not applicable
Aspiration hazard Not applicable

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effects.

Environmental precautions Prevent product from entering drains.

Persistence and degradability
No information available

Bioaccumulation
No information available

Mobility
No information available

Other adverse effects No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal. Empty containers must be scrapped or reconditioned.

Section 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>14.1 UN/ID no</th>
<th>DOT</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1935.32</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

14.2 Proper shipping name

14.3 Hazard Class

14.4 Packing Group
Section 15: REGULATORY INFORMATION

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
All components are listed or exempt from listing

DSL - Canadian Domestic Substances List  
All components are listed or exempt from listing

US Federal Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values %</th>
<th>Hazardous air pollutants (HAPs) content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td></td>
<td>Present</td>
</tr>
<tr>
<td>107-21-1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>10 - 25</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

- Acute health hazard: Yes
- Chronic Health Hazard: Yes
- Fire hazard: No
- Sudden release of pressure hazard: No
- Reactive Hazard: No

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>107-21-1</td>
<td></td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
</tbody>
</table>

US State Regulations

Rule 66 status of product
Not photochemically reactive.

California Proposition 65
WARNING! This product contains a chemical known in the State of California to cause cancer.

U.S. EPA Label information
EPA Pesticide registration number: Not applicable

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron oxide (Fe2O3) 1309-37-1</td>
</tr>
<tr>
<td>Ethylene glycol 107-21-1</td>
</tr>
<tr>
<td>Water 7732-18-5</td>
</tr>
<tr>
<td>Ethoxylated alkylphenol</td>
</tr>
<tr>
<td>Titanium dioxide 13463-67-7</td>
</tr>
<tr>
<td>Diethylene glycol 111-46-6</td>
</tr>
<tr>
<td>Alkoxylated Alcohol Derivative</td>
</tr>
</tbody>
</table>

Product Code  1935.32
## Section 16: OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>3*</td>
</tr>
<tr>
<td>* = Chronic Health Hazard</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Physical hazards</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>X</td>
</tr>
</tbody>
</table>

**Prepared By**  
Product Stewardship

**Revision date**  
28-Mar-2015

**Revision Note**  
No information available

**Disclaimer**  
The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

*End of Safety Data Sheet*