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

Product identifier
Product Code 1977.05
Product Name C YELLOW 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
Skin sensitization Category 1

Label elements

Signal word WARNING

Hazard Statements
May cause an allergic skin reaction

Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

**Response**
Get medical advice/attention if you feel unwell.

**Eyes**
IF IN EYES: 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.

**Skin**
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**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.

**Storage**
Store in a closed container.

**Disposal**
Dispose of contents/containers in accordance with local regulations.

**Hazards not otherwise classified (HNOC)**
Not applicable.

**Other hazards**
May be harmful if swallowed. Causes mild skin irritation.

**Unknown acute toxicity**
.0001% of the mixture consists of ingredient(s) of unknown toxicity.

### 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>Diethylene glycol</td>
<td>111-46-6</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Dodecylbenzenesulfonic acid, isopropylamine salt</td>
<td>26264-05-1</td>
<td>1 - 3</td>
</tr>
<tr>
<td>5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-</td>
<td>126-86-3</td>
<td>0.3 - 1</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**
Get medical advice/attention if you feel unwell.

**Eye contact**
IF IN EYES: 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.

**Skin Contact**
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**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. May cause sensitization by skin contact.

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.

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. Take up mechanically, placing in appropriate containers for disposal.

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
Strong oxidizing agents. Hydrazine.

Section 8: EXPOSURE CONTROLS/PERSOAL 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/m$^3$ aerosol only</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 impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. 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>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Color</td>
<td>yellow</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>
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
vapor density  No information available
Density (lbs per US gallon)  15.43
specific gravity  1.85
Solubility(ies)  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  Strong oxidizing agents. Hydrazine.

Section 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Eye contact  Not applicable
Skin Contact  May cause an allergic skin reaction
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>107-21-1</td>
<td></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>111-46-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dodecylbenzenesulfonic acid, isopropylamine salt</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>26264-05-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>126-86-3</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)  2260  Mg/kg

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AGHS - USA OSHA SDS
Unknown acute toxicity .0001% 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>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity
- Environmental precautions: Prevent product from entering drains.
- Marine pollutant: This material meets the definition of a marine pollutant

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>UN3082</td>
<td>Environmentally hazardous substances, liquid, n.o.s</td>
<td>Environmentally hazardous substances, liquid, n.o.s</td>
<td>Environmentally hazardous substances, liquid, n.o.s</td>
</tr>
<tr>
<td>14.2 Proper shipping name</td>
<td>Polyethylene glycol branched nonylphenyl ether</td>
<td>Polyethylene glycol branched nonylphenyl ether</td>
<td>Polyethylene glycol branched nonylphenyl ether</td>
</tr>
<tr>
<td>Naphthenic acids, zinc salts</td>
<td>Naphthenic acids, zinc salts</td>
<td>Naphthenic acids, zinc salts</td>
<td></td>
</tr>
<tr>
<td>14.3 Hazard Class</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>14.4 Packing Group</td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>14.5 Environmental hazard</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Marine pollutant: This material meets the definition of a marine pollutant

Polyethylene glycol branched nonylphenyl ether, Naphthenic acids, zinc salts
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 107-21-1</td>
<td>1</td>
<td>Present</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 107-21-1</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td></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.

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>
<th>Proprietary Non-Hazardous Ingredient - Proprietary CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol 107-21-1</td>
<td></td>
</tr>
<tr>
<td>Water 7732-18-5</td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol 111-46-6</td>
<td></td>
</tr>
<tr>
<td>Dodecylbenzenesulfonic acid, isopropylamine salt 26264-05-1</td>
<td></td>
</tr>
</tbody>
</table>

Section 16: OTHER INFORMATION

HMIS
Health hazards 2
Flammability 1

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AGHS - USA OSHA SDS
<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>0</th>
</tr>
</thead>
<tbody>
<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