1. IDENTIFICATION

Product identifier
Product Name: ColorFlo Yellow 115

Other means of identification
Product Code: COLORFLO YELLOW
Synonyms: CF 115

Recommended use of the chemical and restrictions on use
Recommended Use: Coloring agent for Concrete.
Uses advised against: Consumer use

Details of the supplier of the safety data sheet
Supplier Address: Solomon Colors, Inc.
Solomon Colors, Inc.
4050 Color Plant Road
Springfield, IL 62702

Company Phone Number: 800-624-0261 (US & Canada); 217-522-3112 (Outside North America)

2. HAZARDS IDENTIFICATION

Classification
OSHA Regulatory Status
This product is NOT classified as hazardous according to the criteria contained in the Hazard Communication Standard 29 CFR 1910.1200 (known as HCS 2012). However, one or more the product component(s) is known to be listed as an OSHA 29 CFR 1910.1000 Air Contaminant. Occupational exposure limits are subsequently provided in section 8 of this SDS.

Label elements

Emergency Overview
Health injuries are not known or expected under normal use.
Appearance: Yellow Liquid
Physical state: Liquid
Odor: Characteristic

Hazards not otherwise classified (HNOC)

Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: CF 115.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLORFLO YELLOW</td>
<td>1 / 9</td>
<td>ColorFlo Yellow 115</td>
<td></td>
</tr>
</tbody>
</table>
Iron Hydroxide Oxide | 20344-49-4 | < 5 *  
Manganese dioxide | 1313-13-9 | < 3 *  
Quartz, Crystalline Silica | 14808-60-7 | < 2 *  
Mica | Proprietary | < 2 *  

The ranges above account for batch-to-batch variability. The components listed above are listed as an OSHA 29 CFR 1910.1000 Air Contaminants. Occupational exposure limits are subsequently provided in section 8 of this SDS.

4. FIRST AID MEASURES

Description of first aid measures

General advice
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids.

Skin Contact
Wash skin with soap and water.

Inhalation
Remove to fresh air.

Ingestion
Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms
None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Dry chemical, Carbon Dioxide, Foam, Sand. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical
No information available.

Hazardous combustion products
Thermal decomposition can lead to the release of irritating gases and vapors. Carbon monoxide. Carbon dioxide (CO2).

Explosion data
Sensitivity to Mechanical Impact
None.
Sensitivity to Static Discharge
None.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas.
Environmental precautions
See Section 12 for additional ecological information.

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  Dike to collect large liquid spills. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

Prevention of secondary hazards  Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling  Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions  Keep container tightly closed in a dry and well-ventilated place. Keep from freezing. Protect from sunlight. Store at temperatures not exceeding 80 °C/ 176 °F.

Incompatible materials  No information available.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product does not present an inhalation hazard in its current physical form. However, activities such as spraying, misting, burning, welding (high temperature), sawing, brazing, machining, grinding, etc. may produce fumes and/or particulates and in those cases the exposure limits listed below would apply.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Hydroxide Oxide 20344-49-4</td>
<td>TWA: 1 mg/m³ Fe</td>
<td>(vacated) TWA: 1 mg/m³ Fe</td>
<td>TWA: 1 mg/m³ Fe</td>
</tr>
<tr>
<td>Manganese dioxide 1313-13-9</td>
<td>TWA: 0.02 mg/m³ Mn respirable particulate matter</td>
<td>(vacated) Ceiling: 5 mg/m³ Mn respirable particulate matter</td>
<td>IDLH: 500 mg/m³ Mn respirable particulate matter</td>
</tr>
<tr>
<td>Quartz, Crystalline Silica 14808-60-7</td>
<td>TWA: 0.025 mg/m³ respirable particulate matter</td>
<td>TWA: 50 µg/m³ TWA: 50 µg/m³ respirable dust excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m³ respirable dust (250)/(%SiO₂ + 5) mppcf TWA respirable fraction (10)/(%SiO₂ + 2) mg/m³ TWA respirable fraction</td>
<td>IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust</td>
</tr>
<tr>
<td>Mica</td>
<td>TWA: 3 mg/m³ respirable particulate matter</td>
<td>(vacated) TWA: 3 mg/m³ respirable dust &lt;1% Crystalline silica TWA: 20 mppcf &lt;1% Crystalline silica</td>
<td>IDLH: 1500 mg/m³ respirable TWA: 3 mg/m³ containing &lt;1% Quartz respirable dust</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin and body protection
Wear protective gloves and protective clothing.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Yellow Liquid</td>
<td>Odor</td>
</tr>
<tr>
<td>Color</td>
<td>yellow</td>
<td>Odor threshold</td>
</tr>
<tr>
<td>pH</td>
<td>8.0 - 10.0</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>0 °C / 32 °F</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>Upper flammability limit:</td>
<td>No information available</td>
</tr>
</tbody>
</table>

COLORFLO YELLOW 4 / 9 ColorFlo Yellow 115
### 10. STABILITY AND REACTIVITY

**Reactivity**
No data available

**Chemical stability**
Stable under normal conditions.

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

**Hazardous polymerization**
None under normal processing.

**Conditions to avoid**
Extremes of temperature and direct sunlight.

**Incompatible materials**
No information available.

**Hazardous Decomposition Products**
Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO2).
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

The product is not known to present an acute toxicity hazard based on known or supplied information for the mixture components.

Inhalation
No known effect based on information supplied.

Eye contact
No known effect based on information supplied.

Skin Contact
No known effect based on information supplied.

Ingestion
No known effect based on information supplied.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Hydroxide Oxide 20344-49-4</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Manganese dioxide 1313-13-9</td>
<td>= 9000 mg/kg (Rat)</td>
<td>-</td>
<td>&gt; 1500 mg/m³ (Rat) 4 h</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms
No information available.

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

Skin corrosion/irritation
Not classified. (Based on mixture components).

Serious eye damage/eye irritation
Not classified. (Based on mixture components).

Sensitization
Not classified. This product does not contain known sensitizers at levels > or equal to 0.1%.

Germ cell mutagenicity
Not classified. (Based on mixture components).

Carcinogenicity
Not classified. (Based on mixture components). This product exists in a liquid form which prevents particles within the fine fraction size range from becoming airborne. Silica crystalline quartz is intrinsically bound to the product matrix.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz, Crystalline Silica 14808-60-7</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reproductive toxicity
Not classified. (Based on mixture components).

STOT - single exposure
Not classified. (Based on mixture components).

STOT - repeated exposure
Not classified. (Based on mixture components).

Aspiration hazard
Not classified. (Based on mixture components).

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 16485 mg/kg
12. ECOLOGICAL INFORMATION

Ecotoxicity
This product has not been fully evaluated on the product level.

Persistence and degradability
No information available.

Bioaccumulation
No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manganese dioxide 1313-13-9</td>
<td>&lt;0</td>
</tr>
</tbody>
</table>

Other adverse effects
No information available

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
Do not reuse container.

14. TRANSPORT INFORMATION

DOT
Not regulated

TDG
Not regulated

MEX
Not regulated

ICAO (air)
Not regulated

IATA
Not regulated

IMDG
Not regulated

RID
Not regulated

ADR
Not regulated

ADN
Not regulated
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Complies</th>
<th>Does not comply</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
<td></td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
<td></td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Does not comply</td>
<td></td>
</tr>
<tr>
<td>ENCS</td>
<td>Does not comply</td>
<td></td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
<td></td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
<td></td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
<td></td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
<td></td>
</tr>
</tbody>
</table>

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manganese dioxide - 1313-13-9</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
See section 2 for more information

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz, Crystalline Silica - 14808-60-7</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Ethylene oxide - 75-21-8</td>
<td>Carcinogen Development</td>
</tr>
<tr>
<td>1,4-Dioxane - 123-91-1</td>
<td>Female Reproductive Male Reproductive Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

This product contains substances regulated by state right-to-know regulations. For more information, please contact your sales or technical representative.
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the
date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,
transportation, disposal and release and is not to be considered a warranty or quality specification. The information
relates only to the specific material designated and may not be valid for such material used in combination with any other
materials or in any process, unless specified in the text.

End of Safety Data Sheet