1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Product name Fire Orange™ Pigment
Product code AX-14-N

1.2 Relevant identified uses of the substance or mixture and uses advised against
Recommended Use Pigment
Restrictions on use No information available

1.3 Details of the supplier of the safety data sheet
Supplier DayGlo Color Corp.
4515 St. Clair Avenue
Cleveland, OH 44103
(216) 391-7070
+1 216-391-7070 (outside the US) This telephone number is available during office hours only.
E-mail Address ehs@dayglo.com

1.4 Emergency telephone number
Emergency telephone number Chemtrec: +1 703-527-3887 ex-USA
Chemtrec: 1-800-424-9300 USA

2. Hazards identification

2.1 Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910.1200

| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |

2.2 Label elements
Signal Word Warning
Hazard Statements Harmful if inhaled
Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell

2.3. Other Hazards  Hazards not otherwise classified (HNOC)
Not Applicable

2.4  Other information
Not Applicable

Unknown Acute Toxicity <1% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Basic Red 1:1</td>
<td>3068-39-1</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

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

4. First aid measures

4.1 Description of first-aid measures
General advice No information available.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact Immediate medical attention is not required. Wash off with soap and water.

Inhalation Immediate medical attention is not required. Move to fresh air.

Ingestion Do NOT induce vomiting. Drink plenty of water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

4.3 Indication of any immediate medical attention and special treatment needed
Notes to physician Treat symptomatically.
5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: None.

5.2 Special hazards arising from the substance or mixture

Special Hazard
None known based on information supplied.


Explosion Data
- Sensitivity to Mechanical Impact: None.
- Sensitivity to Static Discharge: Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.3 Advice 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

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment.

6.2 Environmental precautions

Dust deposits should not be allowed to accumulate on surfaces as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., cleaning dusty surfaces with compressed air). Nonsparking tools should be used. Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Methods for Containment: Prevent dust cloud. Cover powder spill with plastic sheet or tarp to minimize spreading.

Methods for cleaning up: Avoid dust formation. Take precautionary measures against static discharges. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Use personal protective equipment. Take up mechanically and collect in suitable container for disposal. Prevent product from entering drains. Keep in suitable and closed containers for disposal.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid dust formation. Take precautionary measures against static discharges. Fine dust dispersed in air may ignite. Wear personal protective equipment.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep tightly closed in a dry and cool place.

Materials to Avoid: No materials to be especially mentioned.
8. Exposure controls/personal protection

8.1 Exposure Guidelines

8.2 Appropriate engineering controls

Engineering Measures
- Showers
- Eyewash stations
- Ventilation systems.

8.3 Individual protection measures, such as personal protective equipment

- **Eye/Face Protection**: Safety glasses with side-shields.
- **Skin and body protection**: Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate.
- **Respiratory protection**: NIOSH/MSHA approved respiratory protection should be worn if exposure is anticipated.
- **Hygiene measures**: See section 7 for more information.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Powder</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Pungent</td>
<td>Odor Threshold: No information available</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>110 °C / 230 °F</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>Not applicable</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Applicable</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>lower flammability limit</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.36</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Insoluble in water</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Fine dust dispersed in air may ignite</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2 Other information

- **Volatile organic compounds (VOC)**: None

10. Stability and Reactivity

24-Apr-2018 - AX-14-N - 3.01 - AGHS - English -
10.1 Reactivity
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability
Stable

10.3 Possibility of hazardous reactions
None under normal processing.

10.4 Conditions to Avoid
Dust formation. Take precautionary measures against static discharges.

10.5 Incompatible Materials
None known based on information supplied.

10.6 Hazardous Decomposition Products
None known based on information supplied.

11. Toxicological information

11.1 Acute toxicity

Numerical measures of toxicity: Product Information

<table>
<thead>
<tr>
<th>LD50 Oral:</th>
<th>LD50 Dermal:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 16,000 mg/kg (rat)</td>
<td>&gt; 23,000 mg/kg (rat)</td>
</tr>
</tbody>
</table>

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

Unknown Acute Toxicity <1% of the mixture consists of ingredient(s) of unknown toxicity

<table>
<thead>
<tr>
<th>Oral LD50</th>
<th>LD50 Dermal (Dust/Mist)</th>
</tr>
</thead>
<tbody>
<tr>
<td>44,455.00 mg/kg</td>
<td>0.05 mg/l (4 hour)</td>
</tr>
</tbody>
</table>

Numerical measures of toxicity: Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Basic Red 1:1</td>
<td>449 mg/kg (Rat)</td>
<td>2,500 mg/kg (Rat)</td>
<td>0.05 mg/l (4 hour)</td>
</tr>
<tr>
<td>3068-39-1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

11.2 Information on toxicological effects

Skin corrosion/irritation
Product Information
• May cause irritation
Component Information
• No information available

Serious eye damage/eye irritation
Product Information
• May cause eye irritation
Component Information
• No information available
Respiratory or skin sensitization

Product Information
• May be harmful if inhaled
Component Information
• No information available

Germ cell mutagenicity

Product Information
• No information available
Component Information
• No information available

Carcinogenicity

Product Information
• This product contains <0.1% free formaldehyde and may be capable of outgassing formaldehyde at levels in excess of OSHA’s Action Level under some conditions of use. Formaldehyde is a known cancer hazard. Long term exposure may result in dermatitis or respiratory sensitization for sensitive individuals.
Component Information
• No information available

Reproductive toxicity

Product Information
• No information available
Component Information
• No information available

STOT - single exposure
No information available

STOT - repeated exposure
• No known effect

Other adverse effects

Product Information
• No information available
Component Information
• No information available

Aspiration hazard

Product Information
• No information available
Component Information
• No information available

12. Ecological information

12.1 Toxicity

Ecotoxicity
No information available

< 1 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Ecotoxicity effects

12.2 Persistence and degradability
No information available.
12.3 Bioaccumulative potential
Discharge into the environment must be avoided

12.4 Mobility in soil
No information available.

12.5 Other adverse effects
No information available

13. Disposal Considerations

13.1 Waste treatment methods
Dispose of in accordance with federal, state, and local regulations.

14. Transport Information

DOT Not regulated
MEX Not regulated
IMDG Not regulated
IATA Not regulated

15. Regulatory information

15.1 International Inventories
TSCA Complies
DSL Complies
EINECS/ELINCS Complies
ENCS -
IECS Complies
KECL Complies
PICCS Complies
AICS Complies
NZIoC -

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECS - 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
NZIoC - New Zealand Inventory of Chemicals

15.2 U.S. Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
15.3 Pesticide Information

Not applicable

15.4 U.S. State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde - 50-00-0</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>C.I. Basic Violet 10 - 81-88-9</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

16. Other information

NFPA
<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and chemical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

HMIS
<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend:
ACGIH (American Conference of Governmental Industrial Hygienists)
DOT (Department of Transportation)
EPA (Environmental Protection Agency)
IARC (International Agency for Research on Cancer)
International Air Transport Association (IATA)
International Maritime Dangerous Goods (IMDG)
NIOSH (National Institute for Occupational Safety and Health)
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
Reportable Quantity (RQ)
Skin designation (S*)
STEL (Short Term Exposure Limit)
TLV® (Threshold Limit Value)
TWA (time-weighted average)

Prepared By: DayGlo Color Corp.
             Regulatory Affairs/Product Safety

Revision Date: 24-Apr-2018

Revision Note: No information available

Disclaimer
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