

SAFETY DATA SHEET



Revision Date 23-May-2018
Version 3.01

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

1.1 Product identifier

Product name Fire Orange™ Pigment
Product code Z-14-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Pigment
Restrictions on use Professional Use Only

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
Serious eye damage/eye irritation	Category 2B

2.2 Label elements

Signal Word
Warning

Hazard Statements
Harmful if inhaled
Causes serious eye irritation

**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Wash face, hands and any exposed skin thoroughly after handling
 Wear eye protection/ face protection

Precautionary Statements - Response

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
 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

Substance
Mixture

Chemical Name	CAS No.	Weight-%
C.I. Basic Red 1:1	3068-39-1	1 - 5

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 Do not get in eyes, on skin, or on clothing.

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

Foam. Dry powder. Water mist. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Special Hazard

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products Carbon oxides. Nitrogen oxides (NO_x).

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 General industrial hygiene practice. When using do not eat or drink.

7.2 Conditions for safe storage, including any incompatibilities

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

Materials to Avoid Strong acids. Strong bases. Strong oxidizing agents.

8. Exposure controls/personal protection

8.1 Exposure Guidelines

8.2 Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

8.3 Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety glasses with side-shields.
Skin and body protection	Long sleeved clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures	See section 7 for more information

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid	Color	Orange
Appearance	Powder	Odor Threshold	No information available
Odor	Mild		

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	Not Applicable	
Melting/freezing point	138 - 155 °C	
Boiling point/boiling range	Not applicable	No information available
Flash Point	Not Applicable	No information available
Evaporation rate	Not Applicable	No information available
Flammability (solid, gas)	Not applicable	No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity	1.2	
Water solubility	Insoluble in water	
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties	Fine dust dispersed in air may ignite	
Oxidizing Properties		No information available

9.2 Other information

Volatile organic compounds (VOC) content None

10. Stability and Reactivity

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

Strong acids. Strong bases. Strong oxidizing agents.

10.6 Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors.

11. Toxicological information

11.1 Acute toxicity

Numerical measures of toxicity: Product Information

LD50 Oral: > 15,300 mg/kg (rat)	LD50 Dermal: > 3,000 mg/kg (rat)
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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

Oral LD50 44,455.00 mg/kg
LC50 (Dust/Mist) 4.96 mg/l

Numerical measures of toxicity: Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
C.I. Basic Red 1:1 3068-39-1	449 mg/kg (Rat)	2,500 mg/kg (rat)	0.05 mg/l (4 hour)

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

- Irritating to eyes

Component Information

- No information available

Respiratory or skin sensitizationProduct Information

- May be harmful if inhaled

Component Information

- No information available

Germ cell mutagenicityProduct Information

- No information available

Component Information

- No information available

CarcinogenicityProduct Information

- Contains no ingredient listed as a carcinogen

Component Information

- No information available

Reproductive toxicityProduct Information

- No information available

Component Information

- No information available

STOT - single exposure

No information available

STOT - repeated exposure

- No known effect

Other adverse effectsProduct Information

- No information available

Component Information

- No information available

Aspiration hazardProduct Information

- No information available

Component Information

- No information available

12. Ecological information

12.1 Toxicity**Ecotoxicity**

No information available

1.599 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity effects**12.2 Persistence and degradability**

No data are available on the product itself.

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

<u>DOT</u>	Not regulated
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<u>MEX</u>	Not regulated
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<u>IMDG</u>	Not regulated
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<u>IATA</u>	Not regulated
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15. Regulatory information

15.1 International Inventories

TSCA	Complies
DSL	Complies
EINECS/ELINCS	Complies
ENCS	-
IECSC	Complies
KECL	-
PICCS	-
AICS	-
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

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

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 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:

Chemical Name	SARA 313 - Threshold Values %	Weight-%
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Resin (Zinc Compound)	1	90 - 100
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15.3 Pesticide Information

Not applicable

15.4 U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
C.I. Basic Violet 10 - 81-88-9	Carcinogen

16. Other information

NFPA	Health Hazard -	Flammability -	Instability -	Physical and chemical hazards -
HMIS	Health Hazard 2	Flammability 1	Physical Hazard 0	Personal protection X

Legend:*ACGIH (American Conference of Governmental Industrial Hygienists)**Ceiling (C)**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 23-May-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