SAFETY DATA SHEET



Revision Date 23-May-2018 Version 4.01

1. Identification of the substance/mixture and of the compa	ny/undertaking
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1.1 Product identifier

Product name	ZQ® Pigment Fire Orange™
Product code	ZQ-14

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
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		

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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.

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

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 handlingAvoid dust formation. Take precautionary measures against static discharges. Fine dust
dispersed in air may ignite. Wear personal protective equipment.Hygiene measuresHandle 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

Physical state	Solid		
Appearance	Powder	Color	Orange
Odor	Mild	Odor Threshold	No information available
<u>Property</u> pH Melting/freezing point	<u>Values</u> Not Applicable 120 °C / 248 °F	Remarks • Methods	
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)		No information available	
Flammability Limits in Air upper flammability limit lower flammability limit		No information available 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 No information available	
Viscosity, dynamic		No mornation available	
Explosive properties Oxidizing Properties	Fine dust dispersed in air may ignite	No information available	
9.2 Other information			

Volatile organic compounds (VOC) None content

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

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

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

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 <u>Component Information</u> • No information available

Serious eye damage/eye irritation

Product Information
Irritating to eyes
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

<u>Product Information</u> • Contains no ingredient listed as a carcinogen <u>Component Information</u> • No information available

Reproductive toxicity

<u>Product Information</u> • No information available <u>Component Information</u> • 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 <u>Product Information</u> • No information available <u>Component Information</u> • No information available

12. Ecological information

12.1 Toxicity

Ecotoxicity

No information available

3.31 % 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

NZIoC

Not regulated

15. Regulatory information 15.1 International Inventories TSCA Complies DSL EINECS/ELINCS Complies ENCS IECSC Complies KECL PICCS AICS Complies

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-%
Resin (Zinc Compound)	1	90 - 100

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		Carcinog	en
		16. Other information	ation	
NFPA_	Health Hazard -	Flammability -	Instability -	Physical and chemical hazards -
HMIS	Health Hazard 2	Flammability 1	Physical Hazard 0	Personal protection X

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

Revision Date

DayGlo Color Corp. Regulatory Affairs/Product Safety 23-May-2018

Revision Note No information available Disclaimer

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End of Safety Data Sheet