

# Safety Data Sheet

## Dynamic Color Solutions Red Iron Oxide



### Section 1 Product Description

**Product Name:** Dynamic Color Solutions Red Iron Oxide  
**Recommended Use:** Coloration/pigmentation of concrete products, Foundry applications  
**Synonyms:** Ferric Oxide, Iron Oxide  
**Distributor:** Dynamic Color Solutions  
2024 S. Lenox, Milwaukee, WI 53207  
(800) 657-0737  
**Chemical Information:** (800) 657-0737 (8:00 AM - 4:30 PM (CT) M-F)  
**Revision Date:** 5/1/15

### Section 2 Hazard Information

#### Label Elements

**Physical Hazards:** Not classified.      **Hazard Symbol:** None.  
**Health Hazards:** Not classified.      **Signal Word:** None.  
**Environmental Hazards:** Not classified.      **Hazard Statement:** The substance does not meet the criteria for classification

#### OSHA Defined Hazards: Not classified.      **Precautionary Statement**

**Prevention:** Observe good industrial hygiene practices.  
**Hazard(s) Not Otherwise Classified (HNOC):** None known.      **Response:** Wash hands after handling.  
**Supplemental Information:** None.      **Storage:** Store away from incompatible materials.  
**Disposal:** Dispose of waste and residues in accordance with local authority requirements.

### Section 3 Composition / Information on Ingredients

#### Substances

| <u>Chemical Name</u> | <u>CAS #</u> | <u>%</u> |
|----------------------|--------------|----------|
| Red Iron Oxide       | 1309-37-1    | 100      |

#### Impurities

| <u>Chemical Name</u>         | <u>CAS #</u> | <u>%</u> |
|------------------------------|--------------|----------|
| Silica, Crystalline (Quartz) | 14808-60-7   | 1 - 9    |

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## Section 4

## First Aid Measures

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.   |
| <b>Eyes:</b>         | 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. |
| <b>Skin Contact:</b> | IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.                             |
| <b>Ingestion:</b>    | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  |

## Section 5

## Firefighting Procedures

|  |  |
|--|--|
| <b>Extinguishing Media:</b>                  | Use foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. |
| <b>Fire Fighting Methods and Protection:</b> | Firefighters should wear full protective equipment and NIOSH approved self-contained breather apparatus.   |
| <b>Fire and/or Explosion Hazards:</b>        | N/A  |
| <b>Hazardous Combustion Products:</b>        | None   |

## Section 6

## Spill or Leak Procedures

|   |   |
|---|---|
| <b>Steps to Take in Case Material Is Released or Spilled:</b> | Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. |
| <b>Environmental Precautions:</b>                             | Avoid runoff into storm sewers and ditches that lead to waterways. Do not flush spill to drain. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Gather and store in a sealed container pending a waste disposal evaluation.   |

## Section 7

## Handling and Storage

|                      |   |
|----------------------|---|
| <b>Handling:</b>     | Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid creating and inhaling dust. |
| <b>Storage:</b>      | Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a cool, well-ventilated place.   |
| <b>Storage Code:</b> | Green—general chemical storage.   |

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## Section 8

## Protection Information

### Occupational Exposure Limits

#### U.S. OSHA Table Z-3 (29 CFR 1910.1000)

|   | Type | Value                 | Form        |
|---|------|-----------------------|-------------|
| SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7) | TWA  | 0.3 mg/m <sup>3</sup> | Total dust. |
|   |      | 0.1 mg/m <sup>3</sup> | Respirable. |
|   |      | 2.4 mppcf             | Respirable. |

#### U.S. ACGIH Threshold Limit Values Impurities

|   | Type | Value                   | Form                 |
|---|------|-------------------------|----------------------|
| SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7) | TWA  | 0.025 mg/m <sup>3</sup> | Respirable fraction. |

#### U.S. NIOSH: Pocket Guide to Chemical Hazards Impurities

|   | Type | Value                  | Form             |
|---|------|------------------------|------------------|
| SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7) | TWA  | 0.05 mg/m <sup>3</sup> | Respirable dust. |

### Individual protection measures, such as personal protective equipment

|                                       |  |
|---------------------------------------|--|
| <b>Eye/Face Protection</b>            | Wear safety glasses with side shields (or goggles)   |
| <b>Skin Protection</b>                |  |
| <b>Hand Protection</b>                | Wear appropriate chemical resistant gloves.  |
| <b>Other</b>                          | Wear suitable protective clothing.   |
| <b>Respiratory Protection</b>         | In case of insufficient ventilation, wear suitable respiratory equipment.  |
| <b>Thermal Hazards</b>                | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General Hygiene Considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## Section 9

## Physical Data

|  |   |
|--|---|
| <b>Formula:</b> Fe <sub>2</sub> O <sub>3</sub> | <b>Evaporation Rate (BuAc=1):</b> N/A               |
| <b>Odor:</b> No data available                 | <b>Vapor Density (Air=1):</b> N/A                   |
| <b>Odor Threshold:</b> No data available       | <b>Specific Gravity:</b> Varies                     |
| <b>pH:</b> N/A                                 | <b>Solubility in Water:</b> No data available       |
| <b>Melting Point:</b> Not Available            | <b>Log Pow (calculated):</b> No data available      |
| <b>Boiling Point:</b> No data available        | <b>Autoignition Temperature:</b> No data available  |
| <b>Flash Point:</b> No data available          | <b>Decomposition Temperature:</b> No data available |
| <b>Flammable Limits in Air:</b> N/A - N/A      | <b>Viscosity:</b> No data available                 |
| <b>Vapor Pressure:</b> N/A                     | <b>Percent Volatile by Volume:</b> N/A              |

## Section 10

## Reactivity Data

|  |   |
|--|---|
| <b>Reactivity:</b>                       | No data available                             |
| <b>Chemical Stability:</b>               | Stable under normal conditions                |
| <b>Conditions to Avoid:</b>              | None known                                    |
| <b>Incompatible Materials:</b>           | Strong oxidizing agents                       |
| <b>Hazardous Decomposition Products:</b> | No hazardous decomposition products are known |
| <b>Hazardous Polymerization:</b>         | Will not occur                                |

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## Section 11

## Toxicity Data

**Routes of Entry:** Inhalation and ingestion

**Symptoms (Acute):** N/A

**Delayed Effects:** No data available

### Acute Toxicity:

| Chemical Name     | CAS Number | Oral LD50      | Dermal LD50    | Inhalation LC50 |
|-------------------|------------|----------------|----------------|-----------------|
| No data available | 1309-37-1  | Not determined | Not determined | Not determined  |

### Carcinogenicity:

| Chemical Name     | CAS Number | Oral LD50  | Dermal LD50 | Inhalation LC50 |
|-------------------|------------|------------|-------------|-----------------|
| No Data Available | 1309-37-1  | Not Listed | Not Listed  | Not Listed      |

### IARC Monographs. Overall Evaluation of Carcinogenicity

SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7) 1 Carcinogenic to humans

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### U.S. National Toxicology Program (NTP) Report on Carcinogens

SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7) Known To Be Human Carcinogen

### Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect)

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of a negative reproductive effects.

## Section 12

## Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

**Mobility:** No data

**Persistence:** No data

**Bioaccumulation:** No data

**Degradability:** No data

**Other Adverse Effects** No data

| Chemical Name | CAS Number | Eco Toxicity |
|---------------|------------|--------------|
| N/A           | 1309-37-1  | None         |

## Section 13

## Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

**Waste Disposal Code(s):** Not Determined

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## Section 14

## Transport Information

Ground - DOT Proper Shipping Name:

N/A

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA

## Section 15

## Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

| Chemical Name | CAS Number | Eco Toxicity | §313 Name | §304 RQ | CERCLA RQ |
|---------------|------------|--------------|-----------|---------|-----------|
|---------------|------------|--------------|-----------|---------|-----------|

|                   |           |    |    |    |    |
|-------------------|-----------|----|----|----|----|
| No data available | 1309-37-1 | No | No | No | No |
|-------------------|-----------|----|----|----|----|

## Section 16

## Additional Information

Revised: 09/03/2014

Replaces: N/A

Printed: 5/6/2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Dynamic Color Solutions makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary:

|        |   |      |  |
|--------|---|------|--|
| ACGIH  | American Conference of  | NTP  | National Toxicology Program            |
| CAS    | Chemical Abstract Service Number                                      | OSHA | Occupational Safety and Health         |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL  | Permissible Exposure Limit             |
| DOT    | U.S. Department of Transportation                                     | ppm  | Parts per million                      |
| IARC   | International Agency for Research on                                  | RCRA | Resource Conservation and Recovery     |
| N/A    | Not Available   | SARA | Superfund Amendments and               |
|        |   | TLV  | Threshold Limit Value                  |
|        |   | TSCA | Toxic Substance Control Act            |
|        |   | IDLH | Immediately dangers to life and health |