# SAFETY DATA SHEET

**Revision Date** 04-Jun-2015
**Version** 3.01

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

### 1.1 Product identifier

**Product name** Polyol White Dispersion
**Product code** POP4349

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

**Recommended Use** Coloring agent
**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)

**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 (Vapors) | Category 4 |
| Carcinogenicity | Category 2 |

### 2.2 Label elements

**Signal Word**
Warning

**Hazard Statements**
Harmful if inhaled
Suspected of causing cancer

**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**
If exposed or concerned: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Precautionary Statements - Storage**
Store locked up

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

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

**2.4 Other information**
Not Applicable

## 3. Composition/Information on Ingredients

**Substance**

| Chemical Name | CAS-No | Weight % |
|---|---|---|
| Titanium dioxide | 13463-67-7 | 40 - 50 |
| AMORPHOUS SILICA | 7631-86-9 | 1 - 5 |
| ALUMINUM OXIDE | 1344-28-1 | 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** 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** Wash off immediately with plenty of water for at least 15 minutes. Consult a physician if necessary.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**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 Recommendations for immediate medical care and/or special treatment**

**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 Specific 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** None.

**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**

Prevent product from entering drains.

**6.3 Methods and materials for containment and cleaning up**

**Methods for Containment** Dike to collect large liquid spills. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

## 7. Handling and storage

**7.1 Precautions for safe handling**

**Hygiene measures** When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Materials to Avoid** No materials to be especially mentioned.

## 8. Exposure controls/personal protection

### 8.1 Occupational Exposure Limits (OEL)

| Chemical Name | ACGIH TLV | OSHA PEL | British Columbia | Alberta | Quebec | Ontario TWAEV |
|---|---|---|---|---|---|---|
| Titanium dioxide 13463-67-7 | TWA: 10 mg/m³ | TWA: 15 mg/m³ total dust | TWA: 10 mg/m³ TWA: 3 mg/m³ | TWA: 10 mg/m³ | TWA: 10 mg/m³ | TWA: 10 mg/m³ |
| AMORPHOUS SILICA 7631-86-9 | - | TWA: 20 mppcf : (80)/(% SiO2) mg/m³ TWA | | | | |
| ALUMINUM OXIDE 1344-28-1 | TWA: 1 mg/m³ respirable fraction | TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction | TWA: 1.0 mg/m³ | TWA: 10 mg/m³ | TWA: 10 mg/m³ | TWA: 1 mg/m³ |

### 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** If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. 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** | Liquid |
| **Appearance** | Liquid |
| **Color** | White |
| **Odor** | Mild |
| **Odor Threshold** | No information available |

| Property | Values | Remarks • Methods |
|---|---|---|
| **pH** | 7.0 | |
| **Melting/freezing point** | | No information available |
| **Boiling point/boiling range** | > 94 °C / 201 °F | |
| **Flash Point** | 149 °C / 300 °F | |
| **Evaporation rate** | | No information available |
| **Flammability (solid, gas)** | | No information available |
| **Flammability Limits in Air** | | |
| **upper flammability limit** | | No information available |
| **lower flammability limit** | | No information available |
| **Vapor pressure** | | |
| **Vapor density** | | |
| **Specific Gravity** | 1.73 | |
| **Water solubility** | Negligible | |
| **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** | | No information available |
| **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

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

### 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**

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

| | |
|---|---|
| **Oral LD50** | 9,217.00 mg/kg |
| **Dermal LD50** | 40,586.00 mg/kg mg/l |
| **Vapor** | 11.16 mg/l |

**Numerical measures of toxicity: Component Information**

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Titanium dioxide<br>13463-67-7 | 10000 mg/kg ( Rat ) | - | - |
| AMORPHOUS SILICA<br>7631-86-9 | 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 2.2 mg/L ( Rat ) 1 h |
| ALUMINUM OXIDE<br>1344-28-1 | 5000 mg/kg ( Rat ) | - | - |

### 11.2 Information on toxicological effects

**Skin corrosion/irritation**
Product Information
• Not a dermal irritant
Component Information
• No information available

**Eye damage/irritation**
Product Information
• May cause eye irritation.
Component Information
• No information available

**Respiratory or skin sensitization**
Product Information
• No information available
Component Information
• No information available

**Germ Cell Mutagenicity**
Product Information
• No information available
Component Information
• No information available

**Carcinogenicity**
Product Information
• The table below indicates whether each agency has listed any ingredient as a carcinogen
Component Information
•

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Titanium dioxide<br>13463-67-7 | - | Group 2B | - | |

**Reproductive toxicity**

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

**STOT - single exposure**
No information available

**STOT - repeated exposure**

• No information available

**Other adverse effects**
Target Organs
• Eyes
• Lungs
• Respiratory system
• Skin
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

47.675 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

**Ecotoxicity effects**

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|---|---|---|---|
| AMORPHOUS SILICA 7631-86-9 | EC50: 72 h Pseudokirchneriella subcapitata 440 mg/L | LC50: 96 h Brachydanio rerio 5000 mg/L static | EC50: 48 h Ceriodaphnia dubia 7600 mg/L |

### 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 Disposal Guidance

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** | - |
| **IECSC** | 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 Commercial Chemical Substances/EU 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 % |
|---|---|
| ALUMINUM OXIDE<br>1344-28-1 | 1.0 |

### 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 |
|---|---|
| Titanium dioxide - 13463-67-7 | Carcinogen |

## 16. Other information

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazard** - | **Flammability** - | **Instability** - | **Physical and chemical hazards** - |
| **HMIS** | **Health Hazard** 1* | **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
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**Revision Note**
No information available

**Disclaimer**

**The information provided in this Material 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**