

# SAFETY DATA SHEET

Revision Date 21-Apr-2020

Version 3

**COLORFLO WHITE** 

ColorFlo White 600

# 1. IDENTIFICATION

Product identifier

Product Name ColorFlo White 600

Other means of identification

Product Code COLORFLO WHITE

Recommended use of the chemical and restrictions on use

Recommended Use Coloring agent for Concrete.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Manufacturer Address Solomon Colors, Inc. 4050 Color Plant Road Springfield, IL 62702

Company Phone Number 800-624-0261 (US & Canada); 217-522-3112 (Outside North America)

24 Hour Emergency Phone Number 800-373-7542

# 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

This product is NOT classified as hazardous according to the criteria contained in the Hazard Communication Standard 29 CFR 1910.1200 (known as HCS 2012).

### Label elements

**Emergency Overview** 

Health injuries are not known or expected under normal use.

Appearance White Liquid Physical state Liquid Odor Characteristic

Hazards not otherwise classified (HNOC)

Other Information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Titanium Dioxide	13463-67-7	50-75	*
Water	7732-18-5	20-40	*

# 4. FIRST AID MEASURES

Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids.

**Skin Contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Dry chemical, Carbon Dioxide, Foam, Sand. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

No information available.

**Hazardous combustion products**Thermal decomposition can lead to the release of irritating gases and vapors. Carbon monoxide. Carbon dioxide (CO2).

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions 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

Personal precautions, protective equipment and emergency procedures

**Personal precautions**Use personal protection recommended in Section 8. Ensure adequate ventilation,

especially in confined areas.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dike to collect large liquid spills. Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep from freezing. Protect

from sunlight. Store at temperatures not exceeding 80 °C/ 176 °F.

**Incompatible materials**No information available.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not present an inhalation hazard in its current physical form. However,

activities such as spraying, misting, burning, welding (high temperature), sawing, brazing, machining, grinding, etc. may produce fumes and/or particulates and in those cases the

exposure limits listed bellow would apply.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium Dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
13463-67-7		(vacated) TWA: 10 mg/m <sup>3</sup> total dust	TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine
			TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine,
			including engineered nanoscale

**Appropriate engineering controls** 

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of

equipment, work area and clothing is recommended. Wash face, hands and any exposed

skin thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid

AppearanceWhite LiquidOdorCharacteristicColorWhiteOdor thresholdNot applicable

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** 8.0 - 10.0

Melting point/freezing point Approximately 0 °C / 32 °F

Boiling point / boiling range Approximately 100 °C / 212 °F

Flash point No information available

Evaporation rate < 1

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific Gravity

No information available
No information available
No information available
No information available

Water solubility Miscible

Solubility in other solvents
Partition coefficient
Autoignition temperature
No information available
No information available

**Decomposition temperature** 180°C / 356°F

Kinematic viscosity No information available

**Dynamic viscosity** 900-1300 cP @ 20 °C

Explosive properties Not an explosive

Oxidizing properties No information available

**Other Information** 

Softening point
Molecular weight
VOC Content (%)
Density
No information available
No information available
No information available
No information available
Bulk density
16.0 -16.6 lbs/gal

#### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

### **Chemical stability**

Stable under normal conditions.

# **Possibility of Hazardous Reactions**

None under normal processing.

Hazardous polymerization None under normal processing.

#### Conditions to avoid

Extremes of temperature and direct sunlight.

#### Incompatible materials

No information available.

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO2).

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** The product is not known to present an acute toxicity hazard based on known or supplied

information for the mixture components.

No known effect based on information supplied. Inhalation

No known effect based on information supplied. Eye contact

**Skin Contact** No known effect based on information supplied.

Ingestion No known effect based on information supplied.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Water 7732-18-5	> 90 mL/kg(Rat)	-	-

#### Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Serious eye damage/eye irritation

Sensitization

Germ cell mutagenicity Carcinogenicity

Not classified. (Based on mixture components.). Not classified. (Based on mixture components).

Not Classified. This product does not contain known sensitizers at levels > or equal to

0.1%.

Not classified. (Based on mixture components).

Not classified. (Based on mixture components). This product exists in a liquid form which prevents particles within the fine fraction size range from becoming airborne. Titanium Dioxide is intrinsically bound to the product matrix. Titanium Dioxide - In 2006, the International Agency for Research on Cancer (IARC) evaluated TiO2 as "possibly carcinogenic to humans" (Group 2B) based primarily on studies in rats. Inhalation exposures to TiO2 in rats can result in lung effects and lung tumors. However, it is generally recognized that the rat is uniquely sensitive to the effects of "lung overload" which is not observed in other species including humans (Ref. 6). These facts are supported by the results from four large epidemiology studies involving more than 20,000 workers in the titanium dioxide manufacturing industry in North America and Europe which indicate no association with an increased risk of cancer or with any other adverse lung effects (Ref. 1,2,3,4,5,7). These studies did not specifically differentiate between the ultrafine and pigmentary TiO2. References: 1. Boffetta P. Gaborieau V. Nadon L. Parent M-E. Weiderpass E, Siemiatycki J. (2001). Exposure to titanium dioxide and risk of lung cancer in a population-based study from Montreal. Scand. J. Work Environ. Health 27:227-232. 2. Boffetta P., Soutar A., Cherrie J., Granath F., Andersen A., Anttila A., Blettner M., Gaborieau V., Klug S., Langard S., Luce D., Merletti F., Miller B., Mirabelli D., Pukkala E., Adami H-O., and Weiderpass E. (2004). Mortality among workers employed in the titanium dioxide industry in Europe. Cancer Causes and Control 15(7):697-706. 3. Chen J, and Fayerweather W. (1988). Epidemiologic study of workers exposed to titanium dioxide. J. Occup.Med. 30(12):937-42. 4. Fryzek J, Chadda B, Marano D, White K, Schweitzer S, McLaughlin J, and Blot W. (2003). A cohort mortality study among titanium dioxide manufacturing workers in the United States. J. Occup. Environ. Med. 45(4): 400-09. 5. Garabrant D.H., Fine L.J., Oliver C., Bernstein L., and Peters J.M. (1987). Abnormalities oof pulmonary function and pleural disease among titanium metal production workers. Scand. J. Work Environ. Health 13(1):47-51. 6. Levy L. S. (1994). Squamous Lung Lesions Associated with Chronic Exposure by Inhalation of Rats to p-Aramid Fibrils (Fine Fiber Dust) and to Titanium Dioxide: Findings of a Pathology Workshop. In: Mohr, U (Ed), Toxic and carcinogenic effects of solid particles in the respiratory tract, ILSI Press, 473-478. 7. Ramanakumar AV, Parent ME, Latreille B, Siemiatycki J. (2008). Risk of lung cancer following exposure to carbon black, titanium dioxide and talc: results from two case-control studies in Montreal. Int J Cancer 122:183-9.

NTP **Chemical Name ACGIH IARC OSHA** 

Titanium Dioxide	-	Group 2B	-	X
13463-67-7				

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

Not classified. (Based on mixture components).
Not classified. (Based on mixture components).
Not classified. (Based on mixture components).

Numerical measures of toxicity - Product Information

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

This product has not been fully evaluated on the product level.

### Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes**Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG** Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA Not regulated

**IMDG** Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

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# 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Does not comply **ENCS** Complies **IECSC** Complies **KECL PICCS** Complies **AICS** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified 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

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): This product does not contain chemicals at levels that are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

See section 2 for more information

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCI A

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Titanium Dioxide - 13463-67-7	Carcinogen
1,4-Dioxane - 123-91-1	Carcinogen
Ethylene oxide - 75-21-8	Carcinogen
	Developmental
	Female Reproductive
	Male Reproductive

# U.S. State Right-to-Know Regulations

This product contains substances regulated by state right-to-know regulations. For more information, please contact your sales or technical representative.

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 0 Flammability 1 Reactivity 0 Physical and Chemical

Properties -

HMIS Health hazards 0 Flammability 1 Physical hazards 0 Personal protection X

Prepared By Solomon Colors - Lab Technical Services

 Issue Date
 06-Nov-2018

 Revision Date
 21-Apr-2020

Revision Note Periodic Review

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**