

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	ColorWave®	Item
	Black, Blue, Green, Red, White, Yellow	
Product Use	Water-Based Concrete Stain	
Company Name	Direct Colors LLC	Office (877) 255-2656 ext.1
	430 E 10th St	
	Shawnee OK 74801	Web www.DirectColors.com

EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053

SECTION – 2 HAZARDS INFORMATION

Pictogram



Signal Word None

Hazards **PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS**

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Harmful if inhaled

May cause long lasting harmful effects to aquatic life

HAZARD CATEGORY CLASSIFICATION **CODE**

No Category

Category 4 Acute Toxicity (Inhaled) DM H332

Category 4 Chronic Toxicity (Aquatic) H413

Precautions **HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL**

Keep out of reach of children

Avoid breathing dust / fume / gas / mist / vapours / spray

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

Wash thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid release to the environment

Use personal protective equipment as required (See Section - 8)

In case of inadequate ventilation wear respiratory protection

Store in a closed container

Store locked up

Dispose of material in accordance with all State and Federal Guidelines and Regulations

CODE

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SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
Iron Oxide (II,III)	Iron Oxide Black Pigment	1317-61-9		0 - < 25%
Tetrabenzo Tetraazaporphin	Blue Pigment	147-14-8		0 - < 50%
Chromium Oxide	Chrome Oxide Green			0 - < 50%
Iron(III) Oxide	Iron Oxide Red Pigment ; Diiron trioxide ; Ferric Oxide	1309-37-1		0 - 25%
Titanium dioxide	White Pigment	13463-67-7		0 - 50%
Iron(III) Oxide Monohydrate	Iron Oxide Yellow Pigment ; Pigment Yellow 42	51274-00-1		0 - 25%
Polyethylene Glycol	PEG ; Poly(ethylene glycol)	25322-68-3		< 20%

The chemical ingredients listed above are provided for reference and in their physical state or percentage are not classified as hazardous under OSHA Hazard Communication Standard

SECTION – 4 FIRST AID MEASURES

Eye Contact	Immediately flush eyes with cold water for several minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, If irritation persists seek medical aid
Skin Contact	Wash with soap and water, Remove any contaminated clothing and wash before reuse, If irritation occurs or persists seek medical aid
Inhaled	Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention, If breathing is difficult, oxygen or artificial respiration should be administered by qualified personnel
Ingested	DO NOT INDUCE VOMITING, rinse mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into the lungs
Important Effects	No additional effects beyond what is listed above
Important Symptoms	No additional symptoms beyond what is listed above

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media	Not flammable: Use extinguishing media for surrounding fire
Explosion Hazard	Not applicable
Hazardous Decomposition	Burning or thermal decomposition can produce, carbon oxides, copper oxides, Iron oxides, nitrogen oxides
Protective Equipment	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Warn personnel of spill, Stop spill or release only if it can be done safely, Ventilate area, Keep unprotected personnel from entering the spill area
Personal Precautions	Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill
Protective Equipment	Safety Glasses, Chemical Gloves, Rubber Boots
Containment	Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from spreading or entering the environment
Clean Up Procedures	Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water, Large Spills: Absorb spill with inert material, place in a chemical waste container, mop area with clean water
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

Handling	Do not get in eyes, on skin, or clothing, Use appropriate safety equipment, and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly after handling, Avoid release to the environment, Empty containers retain product residue (vapors, liquid or solids) observe all precautions when handling
Storage	Keep container closed when not in use, Keep only in original container, Store away from incompatible materials
Incompatible Materials	Incompatible with, chloroformates, peroxides, sodium oxides

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE LIMITS**

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Significant Exposure
Iron(III) Oxide	5 mg/m ³		10 mg/m ³			5 mg/m ³	Dust
Titanium dioxide	10 mg/m ³		15 mg/m ³		(fine) 2.4 mg/m ³	(ultrafine) 0.3 mg/m ³	IH, Dust
Polyethylene Glycol					(WEEL) 10 mg/m ³		Mist
Chromium Oxide	(as Cr) 0.5mg/m ³		(as Cr) 0.5mg/m ³				Dust

PERSONAL PROTECTION

Eyes	Wear safety glasses or goggles or face shield when handling / using this material
Hands	Wear chemical resistant impervious gloves when handling / using this material
Lungs	Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced
Response	Access to an eye wash station is a recommended safety precaution for handling / using this type of material
Ventilation	General Ventilation, Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA / NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

HMS HAZARD RATINGS

Health	1
Flammability	0
Reactivity	0
Personal Protection	G

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.11
Flammable Limits (v)	ND	pH (± 0.3)	7.5 – 8.5
Auto-Ignition Temp.	ND	Viscosity (mm²s / cSt)	ND
Physical State	Liquid	Melting / Freeze Point	ND
Appearance	Color Varies	Boiling Point	>100°C / 212°F
Odor	Organic Citrus	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 70%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 70%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	Varies
LVP-VOC	0%	Decomposition Temperature	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients
Chemical Stability	Stable under normal ambient and anticipated conditions of use
Hazardous Polymerization	Will not occur
Conditions To Avoid	Incompatible materials
Incompatible Materials	Incompatible with, chloroformates, peroxides, sodium oxides
Hazardous Decomposition	Burning or thermal decomposition can produce, carbon oxides, copper oxides, Iron oxides, nitrogen oxides

SECTION – 11 TOXICOLOGICAL INFORMATION**ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes May cause mild eye irritation
Skin May cause mild skin irritation
Inhalation Mist, vapor or fumes may cause, respiratory irritation
Ingestion May be harmful if swallowed

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes May cause eye irritation
Skin May cause skin irritation
Inhalation Mist, vapor or fumes may cause, respiratory irritation
Ingestion May be harmful if swallowed

Acute Tox Calculated Oral: > 5,000 mg/kg Dermal: > 5,000 mg/kg Inhaled: > 50 mg/l
Acute Tox Category Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/l) Dust or Mist
Target Organs No target organs listed
Medical Conditions No medical conditions known to be aggravated by the use of this product
Notes to Physician Treat symptoms

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

<u>CHEMICAL NAME</u>	<u>NTP</u>	<u>ACGIH</u>	<u>IARC</u>	<u>GHS Category</u>
None Listed	NA	NA	NA	NA
Titanium dioxide			2B (Possible for human)	2 (Suspected human)

MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:

<u>CHEMICAL NAME</u>	<u>Germ Cell Mutagenicity</u>	<u>Toxic to Reproduction</u>
None Listed	NA	NA

COMPONENTS ACUTE TOXICITY

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Form</u>	<u>Subject</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Iron(III) Oxide			No data available			
Titanium dioxide	LD50	Oral	Rat	> 5,000 mg/kg	4 Hours (Dust)	(>2000 mg/kg)
	LC50	Inhaled	Rat	> 6.82 mg/l		(>5 mg/l)
Polyethylene Glycol	LD50	Oral	Rat	> 5,000 mg/kg		(>2000 mg/kg)
	LD50	Dermal	Rabbit	> 5,000 mg/kg		(>2000 mg/kg)
Tetrabenzo Tetraazaporphin			No data available			
Chromium Oxide	LD50	Oral	Rat	> 5,000 mg/kg	(Dust) 4 Hours	(>2000 mg/kg)
	LC50	Inhaled	Rat	> 5.41 mg/l		(>5 mg/l)
Iron oxide (II,III)	LD50	Oral	Rat	> 5,000 mg/kg		(>2000 mg/kg)
Iron(III) Oxide Monohydrate			No data available			

SECTION – 12 ECOLOGICAL INFORMATION

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Subject</u>	<u>Subject Latin</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Iron(III) Oxide			No data available			
Titanium dioxide	LC50	Fathead Minnow	(Pimephales promelas)	> 1,000 mg/l	96 Hours	4 (>100 mg/l)
	EC50	Green Algae	(Pseudokirchneriella s.)	61 mg/l	72 Hours	3 (>10, ≤100 mg/l)
	EC50	Water Flea	(Daphnia magna)	> 1,000 mg/l	48 Hours	4 (>100 mg/l)
Tetrabenzo Tetraazaporphin			No data available			
Chromium Oxide	LC50	Fish	(Danio rerio)	> 10,000 mg/l	96 Hours	4 (>100 mg/l)
	EC50	Bacteria	(Activated sludge)	> 10,000 mg/l	3 Hours	4 (>100 mg/l)
Iron oxide (II,III)	LC50	Zebra Fish	(Danio rerio)	> 100,000 mg/l	96 Hours	4 (>100 mg/l)
	EC50	Water Flea	(Daphnia magna)	> 10,000 mg/l	48 Hours	4 (>100 mg/l)
Iron(III) Oxide Monohydrate			No data available			
Presistence And Degradability	No data available					
Bioaccumulative Potential	No data available					
Mobility In Soil	No data available					
Other Adverse Effects	May be harmful to aquatic life					

SECTION – 13 DISPOSAL CONSIDERATIONS

Disposal Statement	DO NOT DUMP INTO ANY STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER Dispose of any waste in accordance with all State and Federal Guidelines and Regulations
Container Disposal	Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Triple rinse empty container then offer for recycling. If not available, puncture and dispose in a sanitary landfill
Material Disposal	Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

SECTION – 14 TRANSPORT INFORMATION**DOT CLASSIFICATION**

UN Number	Proper Shipping Name n.o.s. (Chemicals) or "Limits"					
Not Regulated	Not dangerous goods					
Hazard Class	Packing Group	Label Codes	Reportable Quantity (lb)	Response	Marine Pollutant	Hazard Label Secondary
None	None	None	None	128	No	
Additional Info:						

SECTION – 15 REGULATORY INFORMATION**TSCA**

CHEMICAL NAME	Sec 8(b) Active Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Iron oxide (Fe ₃ O ₄)	Yes			
Copper	Yes			
Chromium Oxide	Yes			
Ferric Oxide	Yes	Yes	Yes	
Iron(III) Oxide Monohydrate	Yes			

REPORTABLE QUANTITIES

CHEMICAL NAME	Extremely Hazardous	Reportable Quantity	Emission Reporting	RCRA Code	RMP TQ Sec 112r
	EPCRA TPQ Sec 302	EPCRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313	
None Listed					

SARA

CHEMICAL NAME	Section 311	Section 311 / 312 Hazards
	Hazardous Chemical	Acute Chronic Flammable Pressure Reactive
Ferric Oxide	Yes	Yes Yes

RIGHT TO KNOW

CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Iron oxide (II,III)						Yes		Yes			Yes		
Chromium Oxide						Yes		Yes			Yes		
Ferric Oxide			Yes			Yes		Yes	Yes	Yes	Yes	Yes	
Polyethylene Glycol						Yes		Yes					
None Listed													

CALIFORNIA

WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to www.P65Warnings.ca.gov

CHEMICAL NAME	CAS #	Birth Defects	Reproductive Harm	Carcinogen	Developmental
None Listed					

CLEAN AIR WATER ACTS

CHEMICAL NAME	CAS #	Clean Air Acts	Clean Water Acts
		HAP Ozone Class 1 Ozone Class 2	HS PP TP
None Listed			

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
None Listed						

SECTION – 16 OTHER INFORMATION**SDS LEGEND DESCRIPTION**

~	Approximately	KD	Kidney Damage (nephropathy)
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG / IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

Direct Colors LLC

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-- End of Safety Data Sheet --