

# SAFETY DATA SHEET

Pigment #101 - 122

Revision Date 3/27/2022

## SECTION - 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Pigment #101 - 122 **Item**

**Product Use** Synthetic and Natural Iron Oxides, Coloring Agents, Pigments

**Company Name** Direct Colors LLC **Office** (877) 255-2656 ext.1  
430 E 10th St  
Shawnee OK 74801 **Web** [www.DirectColors.com](http://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)

### HAZARD CATEGORY CLASSIFICATION CODE

No Category

### **PRECAUTIONS** HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL

	<u>CODE</u>
Avoid breathing dust / fume / gas / mist / vapours / spray	P261
Do not get in eyes, on skin, or on clothing	P262
Wash thoroughly after handling	P264
Do not eat, drink or smoke when using this product	P270
Avoid release to the environment	P273
Wear protective gloves / protective clothing / eye protection / face protection	P280
Wear respiratory protection	P284
Store in a closed container	P404
Dispose of material in accordance with all State and Federal Guidelines and Regulations	P501

## SECTION - 3 COMPOSITION INFORMATION

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

<u>CHEMICAL NAME</u>	<u>COMMON NAME AND SYNONYMS</u>	<u>CAS #</u>	<u>IMPURITIES</u>	<u>PERCENT</u>
Iron(III) Oxide Monohydrate	Iron Oxide Yellow Pigment ; Pigment Yellow 42	51274-00-1		0 - 100%
Iron(III) Oxide	Iron Oxide Red Pigment ; Diiron trioxide ; Ferric Oxide	1309-37-1		0 - 100%
Iron Oxide (II,III)	Iron Oxide Black Pigment	1317-61-9		0 - 100%
Limestone	Calcium Carbonate	1317-65-3		0 - 100%
Iron Oxide	Hematite	1317-60-8		0 - 100%

## 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** Not applicable under normal use. If irritation is experienced, move person to fresh air

**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, calcium oxide, carbon oxides, Iron oxides

**Protective Equipment** Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

**SECTION – 6 ACCIDENTAL RELEASE MEASURES**

<b>Emergency Procedures</b>	Warn personnel of spill
<b>Personal Precautions</b>	Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill
<b>Protective Equipment</b>	Safety Glasses, Gloves, Dust Respirator
<b>Containment</b>	Prevent spill from entering the environment
<b>Clean Up Procedures</b>	Sweep up and place in disposal container, Mop area with clean water
<b>Disposal</b>	Dispose of material in accordance with all State and Federal Guidelines and Regulations

**SECTION – 7 HANDLING AND STORAGE**

<b>Handling</b>	Do not get in eyes, on skin, or clothing, Avoid breathing dust, 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
<b>Storage</b>	Keep container closed when not in use, Keep only in original container, Store away from incompatible materials
<b>Incompatible Materials</b>	Incompatible with, chloroformates, peroxides, strong oxidizing agents

**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 Oxide	None Established						
Iron Oxide (II,III)	None Established						
Limestone			15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Dust
Iron(III) Oxide Monohydrate	None Established						
Iron(III) Oxide	5 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>			5 mg/m <sup>3</sup>	Dust

As a guideline, OSHA and ACGIH have established 10 mg/m<sup>3</sup> which are generally recognized for nuisance dusts

**PERSONAL PROTECTION**

HMIS HAZARD RATINGS	
Health	1
Flammability	0
Reactivity	0
Personal Protection	F

<b>Eyes</b>	Wear safety glasses or goggles or face shield when handling / using this material
<b>Hands</b>	Wear chemical resistant impervious gloves when handling / using this material
<b>Lungs</b>	Wear a dust mask designed to protect against inhalation of dust particles or if irritation is experienced
<b>Body</b>	"If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when handling / using this material
<b>Response</b>	Access to an eye wash station is a recommended safety precaution for handling / using this type of material
<b>Ventilation</b>	Ventilate to keep dusts of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA / NIOSH approved High-efficiency particulate respirator with full facepiece, The safety equipment information supplied is for general use and may not insure complete safety for the user, "Consulting with a Safety Equipment Supplier is recommended"

**SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Flash Point</b>	Not Flammable	<b>Specific Gravity / Density</b>	Varies (2.8 to 5.3)
<b>Flammable Limits (v)</b>	NA	<b>pH (± 0.3)</b>	3.0 to 9.0
<b>Auto-Ignition Temp.</b>	ND	<b>Viscosity (mm<sup>2</sup>s / cSt)</b>	NA
<b>Physical State</b>	Solid (Powders)	<b>Melting / Freeze Point</b>	Varies
<b>Appearance</b>	Color Varies	<b>Boiling Point</b>	Varies
<b>Odor</b>	Odorless	<b>Vapor Density (air=1)</b>	ND
<b>Odor Threshold</b>	NA	<b>Vapor Pressure (mmHg)</b>	ND
<b>Solubility</b>	0% (Insoluble)	<b>Evaporation Rate (nBuAc=1)</b>	ND
<b>Volatiles</b>	0%	<b>Partition Coefficient</b>	ND
<b>VOC</b>	0%	<b>Molecular Weight (g/mol)</b>	Varies
<b>LVP-VOC</b>	0%	<b>Decomposition Temperature</b>	ND

**SECTION – 10 STABILITY AND REACTIVITY**

<b>Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients
<b>Chemical Stability</b>	Stable under normal ambient and anticipated conditions of use
<b>Hazardous Polymerization</b>	Will not occur
<b>Conditions To Avoid</b>	Incompatible materials
<b>Incompatible Materials</b>	Incompatible with, chloroformates, peroxides, strong oxidizing agents
<b>Hazardous Decomposition</b>	Burning or thermal decomposition can produce, calcium oxide, carbon oxides, Iron 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** Dust may cause 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** Dust may cause 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:**

<b>CHEMICAL NAME</b>	<b>NTP</b>	<b>ACGIH</b>	<b>IARC</b>	<b>GHS Category</b>
None Listed	NA	NA	NA	NA

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

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

**COMPONENTS ACUTE TOXICITY**

<b>CHEMICAL NAME</b>	<b>Type</b>	<b>Form</b>	<b>Subject</b>	<b>Result Value</b>	<b>Exposure Time</b>	<b>GHS Category</b>
Iron(III) Oxide			No data available			
Iron oxide (II,III)	LD50	Otal	Rat	> 5,000 mg/kg		(>2000 mg/kg)
Iron(III) Oxide Monohydrate			No data available			
Limestone			No data available			
Iron Oxide			No data available			

**SECTION – 12 ECOLOGICAL INFORMATION**

<b>CHEMICAL NAME</b>	<b>Type</b>	<b>Subject</b>	<b>Subject Latin</b>	<b>Result Value</b>	<b>Exposure Time</b>	<b>GHS Category</b>
Iron(III) Oxide			No data available			
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			
Limestone			No data available			
Iron Oxide			No data available			
<b>Persistence And Degradability</b>	No data available					
<b>Bioaccumulative Potential</b>	No data available					
<b>Mobility In Soil</b>	No data available					
<b>Other Adverse Effects</b>	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**

Not Regulated

**Proper Shipping Name** n.o.s. ( Chemicals ) or "Limits"

Not dangerous goods

<b>Hazard Class</b>	<b>Packing Group</b>	<b>Label Codes</b>	<b>Reportable Quantity (lb)</b>	<b>Response</b>	<b>Marine Pollutant</b>	<b>Hazard Label</b>	<b>Secondary</b>
None	None	None	None	128	No		

Additional Info:

**SECTION - 15 REGULATORY INFORMATION****TSCA**

<b>CHEMICAL NAME</b>	<b>Sec 8(b) Active Inventory</b>	<b>Sec 8(d) Health And Safety</b>	<b>Sec 4(a) Chemical Test Rules</b>	<b>Sec 12(b) Export Notification</b>
Iron(III) Oxide Monohydrate	Yes			
Ferric Oxide	Yes	Yes	Yes	
Iron oxide (Fe3O4)	Yes			
Limestone	Yes			
Hematite (Fe2O3)	Yes			

**REPORTABLE QUANTITIES**

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

**SARA**

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

**RIGHT TO KNOW**

<b>CHEMICAL NAME</b>	<b>STATE</b>												
	<b>CA</b>	<b>CT</b>	<b>FL</b>	<b>IL</b>	<b>LA</b>	<b>NJ</b>	<b>NY</b>	<b>PA</b>	<b>MI</b>	<b>MN</b>	<b>MA</b>	<b>RI</b>	<b>WI</b>
Ferric Oxide			Yes			Yes		Yes	Yes	Yes	Yes	Yes	Yes
Iron oxide (II,III)						Yes		Yes			Yes		

**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](http://www.P65Warnings.ca.gov)

<b>CHEMICAL NAME</b>	<b>CAS #</b>	<b>Birth Defects</b>	<b>Reproductive Harm</b>	<b>Carcinogen</b>	<b>Developmental</b>
None Listed					

**CLEAN AIR WATER ACTS**

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

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

<b>CHEMICAL NAME</b>	<b>Australia</b>	<b>Canada</b>	<b>Europe (EINECS)</b>	<b>Japan</b>	<b>Korea</b>	<b>UK</b>
Iron Oxide			Yes			

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

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

Direct Colors LLC

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.

-- End of Safety Data Sheet --