

# SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT

**Product Name:** Zinc Oxide Dry Pigment  
**Product Description:** Dry pigment  
**Intended Use:** Fine art painting and decorative coatings

### COMPANY

**Company Name:** Gamblin Artists Colors  
**Company Address:** 2734 SE Raymond St.  
Portland, OR 97202  
USA  
**Company Phone:** 503-235-1945  
**Emergency Phone:** Local Emergency Room

## SECTION 2: HAZARDS IDENTIFICATION

**GHS HAZARD CLASSIFICATION:** NOT CLASSIFIED

### GHS LABEL ELEMENTS:

**SIGNAL WORD:** NO SIGNAL WORD

**LABEL CODES / PICTOGRAMS:**  
NO PICTOGRAMS

**HAZARD STATEMENTS:** NONE UNDER GHS CLASSIFICATION

### PRECAUTIONARY STATEMENTS

**PREVENTION:** NONE ASSIGNED UNDER GHS  
**RESPONSE:** NONE ASSIGNED UNDER GHS  
**STORAGE:** NONE ASSIGNED UNDER GHS  
**DISPOSAL:** NONE ASSIGNED UNDER GHS

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**HAZARDOUS COMPONENTS:**

Chemical Name	Common Name	CAS#	Concentration 0(%)
Zinc Oxide (ZnO)	Zinc White	1314-13-2	95-100

## SECTION 4: FIRST AID MEASURES

### FIRST AID/RESPONSE

<b>Eyes:</b>	IF IN EYES RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET MEDICAL ADVICE/ATTENTION IF IRRITATION OCCURS.
<b>Skin:</b>	IF ON SKIN PROMPTLY WASH OFF WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ADVICE/ATTENTION IF IRRITATION OCCURS. WASH CONTAMINATED CLOTHING BEFORE REUSE.
<b>Inhalation:</b>	IF INHALED REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. GET MEDICAL ADVICE/ATTENTION IF ANY ADVERSE SYMPTOMS OCCUR.
<b>Ingestion:</b>	IF SWALLOWED RINSE MOUTH WITH WATER, THEN DRINK WATER TO DILUTE. INDUCE VOMITING ONLY UNDER THE DIRECTION OF MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH IF THE VICTIM IS UNCONSCIOUS. GET MEDICAL ATTENTION IF LARGE QUANTITY IS INGESTED OR IF YOU FEEL UNWELL.

### MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Acute: Dry cough, headache, throat irritation  
Delayed: No delayed symptoms or effects expected

### INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

Bad cough, headache, and/or nausea. Move effected individual to fresh air.

## SECTION 5: FIRE FIGHTING MEASURES

### FIRE FIGHTING

**Extinguishing Media:** Use media suitable for the surrounding area

**Special Fire Fighting Procedures:**

**Hazards from the substance:** Water contaminated with this material must be contained and prevented from being discharged to environment

**Hazardous thermal decomposition products:** Decomposition products may include Zinc Oxide fumes at high temperatures

**Advice for fire-fighters:**

required

**Special protective actions for fire-fighters:** No special measures

**Special protective equipment for fire-fighters:** Suitable breathing apparatus

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Avoid breathing dust. Refer to Section 7 and Section 8 for advice on handling/storage and PPE

**Environmental Precautions:**

Prevent contamination of soil, drains, and surface water. Inform relevant authorities of spill where required.

**Methods for clean up:**

Avoid dry sweeping or other methods which raise dust. Vacuum or wet-sweep and place into a suitable closable, labeled container for disposal. Dispose of waste via licensed waste disposal contractor.

## SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling:**

This product should be used in accordance with good industrial safety practices and industrial hygiene standards and all local, state, federal, and international regulations. Avoid creating airborne dust. Ensure adequate exhaust ventilation. Workers who handle material should wear gloves and thoroughly wash hands/forearms after exposure. See Section 8.2 if exposure exceeds limits.

**Cautions for Safe Storage:**

This product should be stored in accordance with all local, state, federal and international regulations. Store in a cool, dry, well-ventilated space sealed tightly in the original containers. Protect containers from damage and repair if damage occurs. Use all product within 1 year.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**CONTROL PARAMETERS:**

**Occupational Exposure Limits**

Product/Ingredient Name	Exposure limit values (8 hour TWA)
Zinc Oxide (U.S.A. OSHA PEL)	5 mg/m <sup>3</sup> (fumes) 15mg/m <sup>3</sup> (dust; total) 5 mg/m <sup>3</sup> (dust; respirable)
Zinc Oxide (U.S.A. NIOSH IDLH)	500 mg/m <sup>3</sup>

**Exposure Controls:**

<b>Respiratory Protection</b>	<b>Avoid creating dust. If exposure levels exceed limits, respiratory protection approved for the work being performed must be worn.</b>
<b>Hand Protection</b>	<b>Always wear glove approved for the work being performed when handling Zinc Oxide.</b>
<b>Skin Protection</b>	<b>Wear normal chemical work clothing.</b>
<b>Eye Protection</b>	<b>Always wear approved protective eyewear if there is a potential for dust being created while handling the material.</b>
<b>General Protective Hygiene Measures</b>	<b>Use local exhaust ventilation to pro-actively reduce dust levels.</b>

**OTHER:**

Route(s) of entry	Inhalation and mechanical irritation of eyes and skin
Carcinogen Status	Not a NTP/IARC carcinogen
Signs and symptoms of exposure	Dry throat, cough, and dry itchy skin
Notes	Excess bulk exposure may cause acute respiratory irritation or dry skin

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

Appearance: White color  
 Description: Fine powder or pelletized powder  
 Typical Particle Size: 0.1 µm – 5 µm  
 Flammability Limits: Zinc Oxide is not flammable  
 Explosive Limits: Zinc Oxide is not explosive  
 Odor: Odorless  
 Vapor Pressure: @1500C = 12 mm HG  
 Odor Threshold: Odorless  
 Vapor Density: n/a  
 pH: Neutral  
 Relative Density: Varies  
 Melting point: 1975 °C

Solubility in water: Negligible  
Boiling Point: n/a  
Flash Point: Not flammable  
Evaporation Rate: n/a  
Specific Gravity: 5.68  
Molecular Weight: 81.38  
Suggested Solvents: Acids and bases  
Fire qualities: Will not burn  
Explosive Qualities: Not explosive  
Volatile: 0.3% nominal

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Stable under normal, dry conditions  
**Chemical Stability:** This product is stable  
**Conditions/Materials to Avoid:** Heated magnesium. Chlorinated rubbers above 215C  
**Hazardous Decomposition Products:** Potential for ZnO fumes at elevated temperatures  
**Possibility of Hazardous Reactions:** None.

## SECTION 11: TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

<b>Routes of Entry</b>	<b>Oral, Inhalation</b>
<b>Acute Toxicity</b>	<b>LD50(rat, Inhalation): 7,950 mg/kg (Encyclopedia of Toxicology: Reference Book 2005)</b>
<b>Chronic Toxicity</b>	<b>NOAEL: 50 mg/day (based on human clinical studies)</b>
<b>Mutagenicity</b>	<b>No data available</b>
<b>Carcinogenicity</b>	<b>No data available. Not listed as an IARC Carcinogen. Not listed in the NTP report on carcinogens.</b>

### ACUTE EXPOSURE SYMPTOMS

<b>Eye Contact</b>	<b>Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.</b>
<b>Inhalation</b>	<b>Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the respiratory tract</b>
<b>Skin Contact</b>	<b>No known significant effects or critical hazards</b>
<b>Ingestion</b>	<b>No known significant effects or critical hazards</b>

## SECTION 12: ECOLOGICAL INFORMATION

### TOXICITY

Product Name	Result	Species	Dose	Exposure	Reference
Zinc Oxide	LC50 Inhalation Dusts and mists	Rat	>5.7mg/L	4 Hours	Klimisch and Freisberg (1982)
Zinc Oxide	LD50 Oral	Rat	15000 mg/kg	N/A	Löser (1972)
Zinc Oxide	LD50 Oral	Rat	15000 mg/kg	N/A	Löser (1977)

### PERSISTENCE AND MOBILITY

**Persistence & Degradability:**

Not rapidly degradable

**Bioaccumulative Potential:**

No evidence to indicate significant bioaccumulative potential

**Mobility in soil:**

No evidence to indicate significant mobility in soil

**Results of PBT and vPvB assessment:**

ZnO is not PBT or vPvB.

**Other adverse effects**

None

## SECTION 13: DISPOSAL CONSIDERATIONS

**NOTE: Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at the time of disposal.**

### Waste treatment methods

**Product**

Generation of product waste should be minimized wherever possible. Disposal of product, solutions, and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional or local authority requirements. Dispose of surplus and non-recyclable products via licensed waste disposal contractor. Waste should not be released into sewer system unless regulations permit such release

**Containers/Packaging**

Generation of packaging waste should be minimized wherever possible. Waste packaging should be recycled when possible. Incineration and/or landfill dumping should only be considered when recycling isn't feasible. Make sure to follow all local, state, federal, and international regulations when disposing of packaging materials.

## SECTION 14: TRANSPORT INFORMATION

NAFTA Tariff Class	2817.00.0000, Sched. B.
Country of Origin	U.S.A.
Responsible party	Gamblin Artists Colors
Classification code	M7 (Formerly: Item Number 12C)
Hazard identification/reconnaissance #	90
NMFC Class	55
USDOT Information	This material is not regulated

## SECTION 15: REGULATORY INFORMATION

### U.S.A. Regulations:

USDOT	Not Transport regulated, 49CFR172
SARA 302	Yes, name listed (Zinc). RQ= None, TPQ= None
SARA311/312	Yes, acute hazard, 29CFR1200
SARA313	Yes, Zn & Pb compounds
CA Prop.65	Yes, Pb & Cd
CAA 112, 61 HAP	No, not regulated, no HAP's
FIFRA 152 et seq.	No (product is not subject to FIFRA)
CERCLA 102/103	Name List, RQ=None
NSF 60/61	Submitted NSF, UL
FCC	Listed
CONEG	Compliant
ODS/ODC 82	No

TSCA	Yes, on Inventory, Compliant with TSCA, Notification not required
RCRA 261	If governing spec is >1000 ppm Pb or >20 ppm Cd, product must be TCLP tested for Pb and Cd to determine if waste product is subject to RCRA
USFDA	Listed as GRAS at 21CFR182.8991

**TSCA Equivalent 'inventory' regulations:**

AICS	Yes
SWISS	Yes
PICCS	Yes
DSL	Yes
NDSL	No
ASIA-PAC	Yes
EINECS	Yes, on inventory
ELINCS	No, notification/reporting not required

**EU REACH Information:**

Product Origin	01-2119463881-32-0075 (Tonnage >1000 t/year)
P.R.C. Pre-Registration #	05-2114620034-66-0000
Brazil Pre-Registration #	05-2114626885-37-0000

**SECTION 16: OTHER INFORMATION**

**HMIS Hazard Rating (Paint and Coating Industry)**

Health	1 (Slight)
Flammability	0
Reactivity	0
Personal Protection	E (in bulk dust conditions only. Gloves, mask, and



	<b>goggles are recommended.</b>
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**The information and recommendations contained herein are, to the best of Gamblin’s knowledge and belief, accurate and reliable, but it is not warranted to be. You can contact Gamblin to ensure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use and it is the user’s responsibility to carefully read the product label and follow instructions for safe use of the product.**