

SAFETY DATA SHEET: Zinc Oxide Dry Pigment
REVISED: 5/1/2023

02959-1034



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:

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| 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

| | |
|--------------------|---|
| Eyes: | 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. |
| Skin: | IF ON SKIN PROMPTLY WASH OFF WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ADVICE/ATTENTION IF IRRITATION OCCURS. WASH CONTAMINATED CLOTHING BEFORE REUSE. |
| Inhalation: | 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. |
| Ingestion: | 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

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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 ³ (fumes) 15mg/m ³ (dust; total) 5 mg/m ³ (dust; respirable) |
| Zinc Oxide (U.S.A. NIOSH IDLH) | 500 mg/m ³ |

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Exposure Controls:

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

OTHER:

| | |
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| 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

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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

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

ACUTE EXPOSURE SYMPTOMS

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

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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.

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SECTION 14: TRANSPORT INFORMATION

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| 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 |

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| 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)

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

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| | goggles are recommended. |
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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.