



# SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT

**Product Name:** Gamblin Dry Pigment: Cadmium Red Medium, Cadmium Yellow Medium  
**Product Description:** Dry pigment  
**Intended Use:** Fine art painting and decorative coatings

### COMPANY

**Company Name:** Gamblin Artists Colors  
**Company Address:** 323 SE Division Pl.  
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

### SUPPLEMENTAL INFORMATION

**NOTE:** CADMIUM PIGMENTS ARE MUCH LESS HAZARDOUS THAN OTHER CADMIUM COMPOUNDS AS THEY ARE EXTREMELY INSOLUBLE. THIS GREATLY REDUCES THE RISK OF ABSORPTION OF CADMIUM INTO THE BODY AND ALSO GREATLY REDUCES THEIR ENVIRONMENTAL HAZARD. AS SUCH, THE PRODUCER HAS NOT CLASSIFIED THEIR CADMIUM PIGMENTS AS HAZARDOUS UNDER THE GHS SYSTEM FOR THE US OR UNDER EU REACH STANDARDS. THE CATEGORY





“CADMIUM AND CADMIUM COMPOUNDS” IS REGULATED UNDER VARIOUS U.S. LAWS (SARA 313, CERCLA, RCRA, OSHA CADMIUM STANDARD AT 29 CFR 1910.1027, CALIFORNIA PROPOSITION 65, VARIOUS STATE LISTS, ETC.) AS INDICATED ON THIS SAFETY DATA SHEET.

PER THE OSHA CADMIUM STANDARD - DO NOT EAT, DRINK, SMOKE, CHEW TOBACCO OR GUM, OR APPLY COSMETICS IN REGULATED AREAS, CARRY THE PRODUCTS ASSOCIATED WITH THESE ACTIVITIES INTO REGULATED AREAS, OR STORE SUCH PRODUCTS IN THOSE AREAS. (REGULATED AREA = AREA WHEREVER AN EMPLOYEE’S EXPOSURE TO AIRBORNE CONCENTRATIONS OF CADMIUM IS, OR CAN REASONABLY BE EXPECTED TO BE IN EXCESS OF THE PERMISSIBLE EXPOSURE LIMIT - SEE SECTION 8)

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### **HAZARDOUS COMPONENTS:**

<b>Chemical Name</b>	<b>Common Name</b>	<b>CAS#</b>	<b>Concentration 0(%)</b>
Cadmium sulfoselenide red	C.I Pigment red 108	58339-34-7	25-100
Cadmium zinc sulfide yellow	C.I. Pigment yellow 35	8048-07-5	25-100
Barium sulfate (see NOTE 2)	C.I. Pigment white 21	7727-43-7	0-75

**NOTE 1:** THESE SUBSTANCES ARE SPECIFICALLY EXCLUDED FROM THE SPECIFIC CLASSIFICATION AND LABELLING ENTRIES IN THE GHS TABLE COVERING CADMIUM COMPOUNDS. THEY HAVE BEEN SELF-CLASSIFIED BY THE PRODUCER AS NOT HAZARDOUS ON THE BASIS OF THEIR PHYSICAL AND CHEMICAL PROPERTIES – PARTICULARLY THEIR EXTREME INSOLUBILITY. A RISK ASSESSMENT CONDUCTED BY THE EU CONCLUDED THAT THESE PRODUCTS OFFER NO SIGNIFICANT HAZARD TO EITHER HUMAN HEALTH OR THE ENVIRONMENT. THEIR REACH REGISTRATION HAS CONFIRMED THAT NO CLASSIFICATIONS APPLY – EITHER FOR HUMAN HEALTH OR THE ENVIRONMENT.

**NOTE 2:** BARIUM SULFATE IS PRESENT IN EXTENDED / REDUCED STRENGTH (LITHOPONE-LIKE) PIGMENTS/COLORS. IT MAY ALSO BE PRESENT AT LOWER LEVELS IN CADMIUM “PURE” TYPE PIGMENTS TO CONTROL STRENGTH TO CUSTOMERS’ STANDARDS.

### **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**

AS INORGANIC POWDER, INHALATION OF DUST MAY CAUSE DRYNESS OF MOUTH, COUGHING; DUST CONTACT EYES MAY CAUSE IRRITATION / SORENESS. NO SYMPTOMS EXPECTED FROM SKIN CONTACT OTHER THAN TEMPORARY COLORATION OF THE AFFECTED AREA. INGESTION MAY CAUSE SLIGHT IRRITATION OF MOUTH AND THROAT.

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

CALL A POISON CENTER/DOCTOR/PHYSICIAN IN THE EVENT OF MAJOR INHALATION OR INGESTION

## **SECTION 5: FIRE FIGHTING MEASURES**

### **FIRE FIGHTING**

**Extinguishing Media:** Water as fog, foam, carbon dioxide, dry chemical  
Non-flammable. Use media suitable for the surrounding area

**Special Fire Fighting Procedures:**

Fire conditions may emit toxic/irritating fumes (cadmium oxide, sulfur dioxide) and gases (sulfur dioxide) upon thermal decomposition.  
Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear full personal protective equipment. Remove contaminated clothing/equipment and wash thoroughly after handling/cleaning the spill.

**Environmental Precautions:**

Prevent contamination of soil, drains, and surface waters

**Methods for clean up:** Scoop, shovel or use a vacuum with a HEPA filter to collect the spill. Avoid generating dust. If needed, lightly damp down material with water to control dust levels. Place into a properly labeled impermeable bag/container and seal. Material will be classified as RCRA Hazardous Waste and must be labelled in accordance with the OSHA Cadmium Standard - 29 CFR 1910.1027(m)(3)(ii).





## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling:**

WEAR FULL PROTECTIVE EQUIPMENT (SEE SECTION 8). USE WITH ADEQUATE VENTILATION. AVOID SCATTERING INTO THE AIR / GENERATING DUST. CLEAN SPILLS PROMPTLY AND AVOID RELEASE TO THE SEWER SYSTEM/ WATERWAYS/ENVIRONMENT. EMPLOY GOOD HOUSEKEEPING TECHNIQUES TO CONTROL DUST BUILDUP ON EQUIPMENT AND WORK AREA. REMOVE CONTAMINATED EQUIPMENT/CLOTHING AND WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINER SEALED WHEN NOT IN USE. DO NOT EAT, DRINK, SMOKE, CHEW TOBACCO OR GUM, APPLY COSMETICS WHILE HANDLING OR IN WORK AREA USING THIS PRODUCT.

### **Cautions for Safe Storage:**

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES: STORE ONLY IN THE ORIGINAL SEALED CONTAINERS IN A COOL, DRY AREA. STORE AWAY FROM FOOD, DRINK, ANIMAL FEEDSTUFFS. STORE AWAY FROM IGNITION SOURCES, CONCENTRATED ACIDS AND POWERFUL OXIDIZING AGENTS.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**CONTROL PARAMETERS: SEE 29 CFR 1910.1027 FOR THE OSHA CADMIUM STANDARD**

### **EXPOSURE LIMITS: U.S. OSHA PEL:**

0.0025 mg/m<sup>3</sup> TWA ACTION LEVEL AS Cd; 0.005 mg/m<sup>3</sup> TWA, AS Cd; 0.2 mg/m<sup>3</sup> TWA AND 0.6 mg/m<sup>3</sup> CEILING LIMIT AS Cd DUST FOR DRY COLOR FORMULATORS; 0.2 mg/m<sup>3</sup> TWA SELENIUM COMPOUND AS Se; 15 mg/m<sup>3</sup> TWA TOTAL DUST AS BARIUM SULFATE, 5 mg/m<sup>3</sup> TWA RESPIRABLE FRACTION AS BARIUM SULFATE

### **U.S. ACGIH TLV:**

0.01 mg/m<sup>3</sup> TWA, INHALABLE AS Cd, 0.002 mg/m<sup>3</sup> TWA RESPIRABLE AS Cd; 0.2 mg/m<sup>3</sup> TWA SELENIUM COMPOUND, AS Se; 10 mg/m<sup>3</sup> TWA TOTAL DUST AS BARIUM SULFATE USE LOCAL / MECHANICAL EXHAUST TO MAINTAIN AIR CONCENTRATIONS BELOW OCCUPATIONAL EXPOSURE STANDARDS (SEE ABOVE)

### **APPROPRIATE ENGINEERING CONTROLS:**

USE LOCAL / MECHANICAL EXHAUST TO MAINTAIN AIR CONCENTRATIONS BELOW OCCUPATIONAL EXPOSURE STANDARDS (SEE ABOVE)

## **PERSONAL PROTECTIVE EQUIPMENT**

### **RESPIRATORY PROTECTION:**

HALF MASK AIR-PURIFYING RESPIRATOR EQUIPPED WITH A HIGH EFFICIENCY PARTICULATE AIR FILTER FOR AIRBORNE CONCENTRATIONS UP TO TEN TIMES THE PERMISSIBLE EXPOSURE LIMIT (SEE 29 CFR 1910.1027(g) FOR PROPER EQUIPMENT FOR HIGHER EXPOSURE LEVELS)

### **HAND PROTECTION:**

USE CHEMICAL RESISTANT GLOVES (RUBBER, PVC)

### **EYE PROTECTION:**

VENTED GOGGLES OR FULL FACE SHIELD OR OTHER APPROPRIATE PROTECTIVE EQUIPMENT THAT COMPLIES WITH 29 CFR 1910.133; ACCESS TO AN EYEWASH FOUNTAIN







**OTHER PROTECTIVE EQUIPMENT:**

LAB COAT; COVERALLS TO PROTECT SKIN; HEAD COVERINGS, BOOTS OR FOOT COVERINGS; ACCESS TO A SAFETY DRENCH SHOWER

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**GENERAL INFORMATION**

**Physical State:** Powder  
**Color:** Red or yellow  
**Odor:** No odor  
**Odor Threshold:** N/A

**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**

**Boiling Point:** N/A  
**Melting Point:** N/A  
**Freezing Point:** N/A  
**Vapor Pressure:** N/D  
**Vapor Density:** N/D  
**Specific Gravity:** 3.5-5.5  
**Evaporation Rate:** N/A  
**Solubility in Water:** Insoluble  
**pH (5% in water):** Approximately 7  
**Flammability:** Not flammable  
**Flammable Limits:** LEL:&UEL: (N/A)  
**Molecular Weight:** N/D  
**Viscosity:** N/D  
**Decomposition Temp:** >572°F (300°C)

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** May react with strong acids yielding toxic/flammable hydrogen sulfide gas, toxic hydrogen selenide and possibly soluble toxic cadmium salts  
**Stability:** Material is stable under normal conditions  
**Conditions to Avoid:** Avoid contact with incompatibles. Avoid generating dust.  
**Materials to Avoid:** Concentrated acids, strong oxidizing agents  
**Hazardous Decomposition or Bi-Products:** Fire/thermal decomposition can produce hazardous fumes (cadmium oxide, selenium dioxide) and gases (sulfur dioxide)  
**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur

**SECTION 11: TOXICOLOGICAL INFORMATION**

**INFORMATION ON TOXICOLOGICAL EFFECTS**





**Inhalation:** Inhalation of dust may cause respiratory irritation.  
**Ingestion:** This route of exposure is not likely. No known effects.  
**Skin:** Not expected to be irritating  
**Eye:** Dust contact with eyes may cause irritation.

HAZARD CLASS	CONCLUSION/REMARKS
<b>Inhalation</b>	
Acute Toxicity	Not classified
<b>Ingestion</b>	
Acute Toxicity	Oral LD50 values are normally >5000 mg/kg
<b>Skin</b>	
Acute Toxicity	Not expected to be irritating
<b>Eye</b>	
Serious Eye Damage/Irritation	No test data available. May cause irritation but below GHS classification
<b>Sensitization</b>	
Eye, Skin, Aspiration, Reproductive, Carcinogenicity	No sensitizing effects known
<b>Mutation</b>	
Germ Cell Mutagenicity	No data available. Producer has not classified as mutagen
<b>Specific Target Organ Toxicity (STOT)</b>	
Single Exposure	No Data Available
Chronic	Gross overexposure over many years may lead to kidney damage but this should never happen given modern working conditions

## SECTION 12: ECOLOGICAL INFORMATION

### ECOLOGICAL INFORMATION

**Ecotoxicity:** The extreme insolubility of these pigments indicate that they offer no significant hazard. No actual testing has been done and as such, it is recommended to avoid release to the environment and waterways.

**Aquatic Toxicity:** No test data available

**Mobility:** Movement of these highly insoluble products through the soil will only occur by physical movement of the material itself.





## **PERSISTENCE AND MOBILITY**

**Biodegradation:** This product is not expected to be biodegradable

**Persistence & Degradability:**

Highly stable insoluble inorganic compound - not expected to degrade in the environment. Not within the definition of PBT OR vPvB

**Bioaccumulative Potential:**

Highly insoluble in both water and all organic solvents - not expected to bioaccumulate

## **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 Disposal:**

Dispose of in accordance with national, state, and local regulations. Dispose of in sealed, impermeable containers using a licensed chemical waste hauler, per the OSHA Cadmium Standard, the warning labels for containers of contaminated protective clothing equipment, waste, scrap or debris shall include at least the following information: DANGER CONTAINS CADMIUM MAY CAUSE CANCER CAUSES DAMAGE TO LUNGS AND KIDNEYS. AVOID CREATING DUST.

## **SECTION 14: TRANSPORT INFORMATION**

**LAND (DOT):** Not regulated as dangerous goods

**SEA (IMDG):** Not regulated as dangerous goods

**AIR (IATA):** Not regulated as dangerous goods

## **SECTION 15: REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS TSCA (TOXIC SUBSTANCE CONTROL ACT):**

Substance is listed

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

Substance is listed\*

\*ALL COLORS ARE LISTED AS CADMIUM COMPOUNDS. YELLOWS ARE ALSO LISTED AS ZINC COMPOUNDS. ORANGES, REDS, MAROONS ARE ALSO LISTED AS SELENIUM COMPOUNDS.

**U.S. CERCLA:**

Listed as part of the generic category "Cadmium and Compounds" with no requirement assigned to the generic broad class.





**STATE REGULATIONS:** California Proposition 65 listed as party of the generic category  
"Cadmiums and Compounds"

## **SECTION 16: OTHER INFORMATION**

**N/D = Not determined, N/A = Not applicable**

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

Updates made in accordance with implementation of GHS requirements.

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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.

