



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Viridian Dry Pigment
Product Description: pigment/colorant
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

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture TOXIC TO REPRODUCTION [Fertility] – Category 1B
TOXIC TO REPRODUCTION [Unborn child] – Category 1B

GHS LABEL ELEMENTS

Hazard pictograms



Signal word: Danger
Hazard statement: May damage fertility or the unborn child

Precautionary statements:

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container at hand.
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response: IF exposed or concerned. Get medical attention.
Storage: Store locked up.



Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC)

Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, nose and throat.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	CAS-No.	(%)
Chromium Compounds	12001-99-9	>80
Diboron Trioxide	1303-86-2	5 - 10

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: FIRST AID MEASURES

- Eyes:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so the vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- 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 nose, throat and lungs.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments No specific treatment

Protection of

first-aiders No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-containing breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

SECTION 5: FIRE FIGHTING MEASURES

FIRE FIGHTING

Extinguishing Media: Use an extinguishing agent suitable for the surrounding materials.

Unsuitable Extinguishing Media:
None known.

Specific hazards arising from the chemical:
No specific fire or explosion hazard.

Hazardous thermal decomposition products
No specific data

Special protective actions for fire-fighters
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for firefighters:
Fire-fighters should wear appropriate protective equipment and self-containing breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures:

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel."



Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment filled with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or contained areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment filled with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid exposure – obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. If curing normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Cautions for Safe Storage, including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate equipment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

Ingredient Name	Exposure limits
Diboron Trioxide	OSHA PEL (United States, 2/2013).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH PEL 1989 (United States, 3/1989).
	TWA 10 mg/m ³ 8 hours
	OSHA PEL 1989 (United States, 3/1989).
	TWAA 10mg/m ³ 8 hours. Form: Total dust.



APPROPRIATE ENGINEERING CONTROLS

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

INDIVIDUAL PROTECTION MEASURES

HYGIENE MEASURES

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

EYE/FACE PROTECTION

Safety eyewear comply with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

SKIN PROTECTION

HAND PROTECTION

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufactures. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

BODY PROTECTION

Personal protection equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

OTHER SKIN PROTECTION

Appropriate footwear and any additional in protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

RESPIRATORY PROTECTION

Normal work clothing (long sleeved shirts and long pants) is recommended. In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

PHYSICAL STATE:	Solid (powder)
COLOR:	Green
ODOR:	Odorless
ODOR THRESHOLD:	Not applicable
pH	Not tested
MELTING POINT	Not available
BOILING POINT	Not available
FLASH POINT	Not applicable
VOC	0%
EVAPORATION RATE	Not tested
FLAMMABILITY (SOLID, GAS)	Not available
UPPER/LOWER EXPLOSIVE	Not tested
FLAMMABILITY LIMITS	
VAPOR PRESSURE	Not available
VAPOR DENSITY	Not tested
RELATIVE DENSITY:	3.35
SOLUBILITY:	Insoluble in the following materials: cold water and hot water
PARTITION COEFFICIENT	Not applicable
(n-octanol/water)	
AUTO-IGNITION TEMPERATURE	Not applicable
DECOMPOSITION TEMPERATURE	Not applicable
VISCOSITY	Not tested

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	This product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions does not occur.
Conditions to Avoid:	No specific data.
Incompatible materials:	No specific data.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

SKIN CONTACT Adverse symptoms may include the following:

- Reduced fetal weight
- Increase in fetal deaths
- Skeletal malformations

INGESTION Adverse symptoms may include the following:

- Reduced fetal weight
- Increase in fetal deaths



Skeletal malformations

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE

SHORT TERM EXPOSURE

POTENTIAL IMMEDIATE EFFECTS: Not available

POTENTIAL DELAYED EFFECTS: Not available

LONG TERM EXPOSURE

POTENTIAL IMMEDIATE EFFECTS: Not available

POTENTIAL DELAYED EFFECTS: Not available

POTENTIAL CHRONIC HEALTH EFFECTS

GENERAL: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

CARCINOGENICITY No known significant effects or critical hazards

MUTAGENICITY No known significant effects or critical hazards

TERATOGENICITY **May** damage the unborn child

DEVELOPMENTAL EFFECTS No known significant effects or critical hazards

FERTILITY EFFECTS May damage fertility

NUMERICAL MEASURES OF TOXICITY

ACUTE TOXICITY ESTIMATES:

ROUTE	ATE value
Oral	3150.5 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY Not available

PERSISTENCE AND DEGRADABILITY Not available

BIOACCUMULATIVE POTENTIAL Not available

MOBILITY IN SOIL

Soil/water partition Not available

Coefficient (Koc)

OTHER ADVERSE EFFECTS No known significant effects or critical hazards

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



SECTION 14: TRANSPORT INFORMATION

	DOT classification	TDG classification	Mexico classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper Shipping name	-	-	-	-	-
Transport Hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental Hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: REGULATORY INFORMATION

INTERNATIONAL LISTS:

- Australian Inventory (AICS):** All components are listed or exempted.
- China Inventory (IECSC):** All components are listed or exempted.
- Japan Inventory:** All components are listed or exempted.
- Korea Inventory:** All components are listed or exempted.
- Malaysia Inventory of (EHS Register):** Not determined.
- New Zealand Inventory of chemicals (NZIoC):** All components are listed or exempted.
- Philippine Inventory (PICCS)** All components are listed or exempted.
- Taiwan inventory (CSNN):** Not determined.
- Europe Inventory:** Please contact your supplier to get the information.

SECTION 16: OTHER INFORMATION

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.

SAFETY DATA SHEET: Gamblin Artist Oil Colors – Viridian Dry Pigment
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