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# SAFETY DATA SHEET according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 03/03/2015	Version 1.1
VERDIGRIS GOLD	
the substance or mixture and uses advised against	
Cosmetic raw material	
ne safety data sheet	
TKB TRADING, LLC 1101 9th Avenue Oakland, CA 94606, USA Telephone: +1 510 922 9027	
	VERDIGRIS GOLD f the substance or mixture and uses advised against Cosmetic raw material ne safety data sheet TKB TRADING, LLC 1101 9th Avenue Oakland, CA 94606, USA

# **SECTION 2. Hazards identification**

# **GHS-Labeling**

Not a dangerous substance according to GHS.

# Other hazards

None known.

# SECTION 3. Composition/information on ingredients

Chemical nature

Mica coated with: titanium dioxide, ferric oxide

# Hazardous ingredients

Chemical Name (Concentration) CAS-No. mica (muscovite) (>= 30 % - < 50 % ) 12001-26-2 Exact percentages are being wihtheld as a trade secret. titanium(IV) oxide (>= 10 % - < 30 % ) 13463-67-7

# **VERDIGRIS GOLD**

Exact percentages are being wihtheld as a trade secret.

## **SECTION 4. First aid measures**

**Description of first-aid measures** 

*Inhalation* After inhalation: fresh air.

#### Skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### Eye contact

After eye contact: rinse out with plenty of water.

#### Ingestion

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Never give anything by mouth to an unconscious person.

#### Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

#### Indication of any immediate medical attention and special treatment needed

No information available.

#### SECTION 5. Fire-fighting measures

#### Extinguishing media

*Suitable extinguishing media* Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

*Unsuitable extinguishing media* For this substance/mixture no limitations of extinguishing agents are given.

#### Special hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapors.

#### Advice for firefighters

*Special protective equipment for fire-fighters* In the event of fire, wear self-contained breathing apparatus.

*Further information* none

### SECTION 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

# **Environmental precautions**

No special precautionary measures necessary.

## Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

# SECTION 7. Handling and storage

#### Precautions for safe handling

Observe label precautions.

# Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Storage temperature: no restrictions.

# SAFETY DATA SHEET according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product name

# **VERDIGRIS GOLD**

Z1A Time Weighted Average (TWA): 5 mg/m <sup>3</sup> Form of exposure: Respirable fractio   Time Weighted Average (TWA): 15 mg/m <sup>3</sup> Form of exposure: Total dust.   Time Weighted Average (TWA): 50millions of particles per cubic foot of air Form of exposure: Total dust.   Time Weighted Average (TWA): 15 mg/m <sup>3</sup> Form of exposure: Total dust.   Time Weighted Average (TWA): 15 mg/m <sup>3</sup> Form of exposure: Total dust.   Time Weighted Average (TWA): 15 mg/m <sup>3</sup> Form of exposure: Total dust.   Time Weighted Average (TWA): 5 mg/m <sup>3</sup> Form of exposure: Total dust.   OSHA_TRANS PEL: 5 mg/m <sup>3</sup> Form of exposure: Total dust.   OSHA_TRANS PEL: 5 mg/m <sup>3</sup> Form of exposure: Respirable fractio (TWA):   OSHA_TRANS PEL: 5 mg/m <sup>3</sup> Form of exposure: Inhalable particles (TWA):   ACGIH Time Weighted Average (TWA): 10 mg/m <sup>3</sup> Form of exposure: Respirable particles (TWA):   MICGIHA Time Weighted Average (TWA): 3 mg/m <sup>3</sup> Form of exposure: Respirable particles (TWA):   NIOSH/GUIDE Recommended exposure: limit (REL): 3 mg/m <sup>3</sup> Form of exposure: Respirable dust.   Time Weighted Average (TWA): 3 mg/m <sup>3</sup> F	imit(s)			
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# Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

# Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

# **VERDIGRIS GOLD**

# Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

# *Eye/face protection* Safety glasses

#### 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.

#### Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

=(	Physical state	powder
	Color	gold
	Odor	odorless
	Odor Threshold	Not applicable
	рH	8.0 - 11.0 at 100 g/l 68 °F (20 °C) (slurry)
	Melting point	No information available.
	Boiling point/boiling range	Not applicable
	Flash point	Not applicable
	Evaporation rate	No information available.
	Flammability (solid, gas)	The product is not flammable.
	Lower explosion limit	Not applicable
	Upper explosion limit	Not applicable
	Vapor pressure	Not applicable
	Relative vapor density	Not applicable
	Density	3.1 - 3.3 g/cm³ at 68 °F (20 °C)

# **SECTION 9.** Physical and chemical properties

# SAFETY DATA SHEET according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product name	VERDIGRIS GOLD	Version 1.1
Relative density	No information available.	
Water solubility	at 68 °F (20 °C) practically insoluble	
Partition coefficient: n- octanol/water	Not applicable	
Autoignition temperature	Not applicable	
Decomposition temperatu	re Not applicable	
Viscosity, dynamic	Not applicable	
Explosive properties	Not classified as explosive.	
Oxidizing properties	none	
Bulk density	330 - 370 kg/m³	
Particle size	Particle size 10.0 - 60.0 μm	
	Mean particle size 18.0 - 25.0 μm	

# SECTION 10. Stability and reactivity

## Reactivity

See below

# **Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

# Possibility of hazardous reactions

no information available

# Conditions to avoid

no information available

# Incompatible materials

no information available

# Hazardous decomposition products no information available

# SECTION 11. Toxicological information

# Information on toxicological effects

*Likely route of exposure* Inhalation, Eye contact, Skin contact, Ingestion

# **VERDIGRIS GOLD**

<i>Target Organs</i> Respiratory system				
	<i>Specific target organ systemic toxicity - single exposure</i> The substance or mixture is not classified as specific target organ toxicant, single exposure.			
	<i>Specific target organ systemic toxicity - repeated exposure</i> The substance or mixture is not classified as specific target organ toxicant, repeated exposure.			
<i>Aspiration hazard</i> Regarding the available data the classification criteria are not fulfilled.				
Carcinogenicity				
IARC	Group 2B: Possibly carcinogenic to humans			
	titanium(IV) oxide	13463-67-7		
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
NTP				
ACGIH	No ingredient of this product pro	esent at levels greater than or		
	equal to 0.1% is identified as a carcinogen or potential			
	carcinogen by ACGIH.			

# **Further information**

The results of animal experiments using pigments of this type indicate no toxicologically relevant properties. Since the substance is poorly absorbed, no hazardous properties are to be anticipated. Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions. The individual test results were as follows: skin tolerance (rabbit): no irritant effect; eye irritation test (rabbit): no irritant effect; sensitization test (guinea pig): no sensitizing potential. LD##<sub>0</sub>(oral, rat): not determinable; all animals still alive after 15,000 mg/kg. Subchronic toxicity (rat): no appreciable findings up to 50 000 ppm.

Chronic toxicity (rat): 5 % of the product added to the feed for a period of 2.5 years did not show any toxicological changes or carcinogenic effects in animals.

 $LC_{50}$  (inhalational, rat): male animals: between 4.6 and 14.9 mg/l air; female animals: > 14.9 mg/l air.

The product did not show any genotoxic effects in the micronucleus test carried out in rats in concentrations of up to 2000 mg/kg (limit test).

Handle in accordance with good industrial hygiene and safety practice.

# Ingredients

*mica (muscovite)* No information available.

*titanium(IV) oxide* Acute oral toxicity LD50 Rat: > 10,000 mg/kg (External MSDS)

# VERDIGRIS GOLD

*Skin irritation* Rabbit Result: No skin irritation (IUCLID)

*Eye irritation* Rabbit Result: No eye irritation (IUCLID)

# **SECTION 12. Ecological information**

#### Ecotoxicity

No information available.

Persistence and degradability No information available.

#### Bioaccumulative potential

*Partition coefficient: n-octanol/water* Not applicable

Mobility in soil No information available.

#### Ingredients

*mica (muscovite)* No information available.

*titanium(IV) oxide Toxicity to fish* LC0 Leuciscus idus (Golden orfe): > 1,000 mg/l(External MSDS)

Toxicity to bacteria EC0 Pseudomonas fluorescens: > 5,000 mg/l(External MSDS)

# **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **SECTION 14. Transport information**

Land transport (DOT) Not classified as dangerous in the meaning of transport regulations.

Air transport (IATA)

# **VERDIGRIS GOLD**

Not classified as dangerous in the meaning of transport regulations.

# Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

# **SECTION 15. Regulatory information**

#### United States of America

# **SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311,

Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311,

Table 117.3.

DEA List I Not listed

DEA List II Not listed

#### **US State Regulations**

#### Massachusetts Right To Know

*Ingredients* mica (muscovite) titanium(IV) oxide

#### Pennsylvania Right To Know

*Ingredients* mica (muscovite) titanium(IV) oxide

# New Jersey Right To Know

*Ingredients* mica (muscovite) titanium(IV) oxide

#### California Prop 65 Components

WARNING: this product contains a chemical known in the State of California to cause cancer. *Ingredients* titanium(IV) oxide

Product name	VERDIGRIS GOLD	Version 1.1
Notification status		
TSCA:	All components of the product are listed in the TSCA-inventory.	
DSL:	All components of this product are on the Canadian DSL.	
KOREA:	Not in compliance with the inventory	

# **SECTION 16. Other information**

**Training advice** Provide adequate information, instruction and training for operators.

Labeling Precautionary Statements Prevention P260 Do not breathe dust.

Key or legend to abbreviations and acronyms used in the safety data sheet Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date03/03/2015

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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