BRAMBLE BERRY
HANDCRAFT PROVISIONS

Safety Data Sheet
Titanium Dioxide Pigment

June 23rd, 2020

Section 1: Chemical Product and Company Identification

Product name: Titanium Dioxide Pigment

Contact Info:
Bramble Berry Inc.
2138 Humboldt Street
Bellingham, WA 98225
info@brambleberry.com
www.brambleberry.com
1-877-627-7883

Emergency Phone Number:

Within USA & Canada: 1.800.424.9300 CCN693143
Outside USA & Canada: +1.703.527.3887 (collect calls accepted)

Section 2: Hazards Identification

This mixture has not been tested as a whole. it contains ingredients that could present a health hazard to employees, as outlined below.

Classification of the chemical

Not applicable

Label elements

Pictograms and signal words: None.

Hazard statements:

Not applicable.

Precautionary statements

Not applicable.

Hazards not otherwise classified identified during the classification process:

Not available.

Section 3: Composition/Information on Ingredients

Substances/Mixture: Substance

List of components

Name	EC #	CAS #	Quantity

Titanium Dioxide	236-675-5	13463-67-7	>98%

Section 4: First Aid Measures

Description of first aid measures

Inhalation: Remove person to fresh air. If symptoms persist, seek medical attention.

Skin contact: Wash affected skin with plenty of water and soap.

Eye contact: If contact with eyes directly, flush with gently flowing fresh water thoroughly; If eye irritation persists, seek medical attention.

Ingestion: No adverse health effects anticipated by this route, however, in the event of ingestion, increase intake of liquid in order to flush from the body. If symptoms persist, seek medical attention.

Most important systems and effects, both acute and delayed

The product is not classified as harmful to human health.

Indication of any immediate medical attention and special treatment needed:

If skin rash or irritation occurs, get medical attention/advice.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: Use any media appropriate for combustible material in the area.

Unsuitable extinguishing media: None in particular.

Special hazards arising from the substance or mixture

Product is inert, non-flammable and non-combustible.

Special protective equipment and precautions for fire-fighters

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Use personal protective equipment. Information regarding personal protective measures see, Section 8.

For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.

Environmental Precautions

Prevent run-off from entering ground, storm sewers and ditches which lead to natural waterways.

Methods and material for containment and cleaning up

Use any feasible mechanical means (e.g. vacuum, sweeping) but avoid dusting

during clean-up. The product can cause slippery conditions if wet. Even at low concentration, the product renders the discharge in liquid effluent highly visible.

Additional Information

Wet clean or vacuum up solids. Do not use a brush or compressed air for cleaning surfaces or clothing. Clear spills immediately.

Section 7: Handling and Storage

Precautions for safe handling

Protective measures: Avoid raising dust. Handling systems and areas should be operated in such a way as to minimize exposure to dust.

Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Stored in a cool, dry, ventilated area. Pigments should not be stored in outside areas exposed to the weather. Care should be taken to avoid exposure to moisture.

Packing material: Paper, Plastic.

Section 8: Exposure Controls/Personal Protection

Control parameters:

Occupation exposure limits:OEL respirable dust:4mg/m3;Total inhalable dust:10mg/m3

Additional exposure limits under the conditions of use: Not available.

DNEL/DMEL and PNEC-Values: Not available.

Exposure controls:

Appropriate engineering controls: Production facilities should be provided with running drinking water, local and general aspiration systems. In facilities, where titanium dioxide is handled, eating and food storage is not permitted.

Individual protection measures, such as personal protective equipment:

Eye/face protection: The use of dust proof goggles or glasses with side protections is recommended if dust concentrations are likely to exceed the occupational exposure limit.

Hand protection: Use protective gloves according to EN374 Europe) F739 (US).to prevent skin contact with dust., Break through time: > 60 min.

Body protection: Respect main rules concerning the protection clothes for chemicals handling.

Respiratory protection: Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive

pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Smoking, eating and drinking should be prohibited in the application area. Wash face, hands and any exposed skin thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Wash hands before breaks and at the end of workday.

Thermal hazards: Wear suitable protective clothing to prevent heat.

Environmental exposure controls: Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State: Solid

Appearance and colour: White

Odour: Odourless

Odour threshold: Not determined

pH: 7.9

Melting point / freezing point: 1560℃

Boiling Point: ca. 3000℃

Flash point: Not Available

Upper/lower flammability or explosive limits: Not determined

Relative density: 4.17

Solubility in water: Insoluble

Solubility in oil: Insoluble

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

Explosive properties: Not determined

Oxidizing properties: Not determined

Solid/gas flammability: Not determined

Other information

Substance Groups relevant properties: Not determined

Miscibility: Not determined

Section 10: Stability and Reactivity

Reactivity: Stable under normal conditions.

Chemical stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions: No dangerous reactions known.
Conditions to avoid: Incompatible materials.
Incompatible materials: Strong oxidizing agents.
Decomposition products: Titanium oxides.

Section 11: Toxicological Information

Information on toxicological effects
Toxicological Information of the Substance

Acute Toxicity:
LD50(Oral, Rat): > 5000 mg/kg bw
LD50(Dermal, Rabbit): Not available
LC50(Inhalation, Rat): > 6.82 mg/L air/4 h(male)
Skin Corrosion/Irritation: Not classified*
Serious Eye Damage/Irritation: Not classified*
Respiratory or Skin Sensitisation: Not classified*
Germ Cell Mutagenicity: Not classified*
Carcinogenicity: Not classified*
Reproductive Toxicity: Not classified*
STOT-single exposure: Not classified*
STOT-repeated exposure: Not classified*

*Based on available data, the classification criteria are not met

Section 12: Ecological Information

Toxicity:

Acute toxicity	Time	Species	Method	Evaluation	Remarks
LC50	96h	Fish	OECD 203	N/A	N/A
EC50	48h	Daphnia	OECD 202	N/A	N/A EC50

Persistence and degradability:
Persistence and biodegradability-is resistant to degradation and isn't subject to biodegradation.

Biodegradability [BD = (BOD5 : COD) • 100 %] : <10% (practically non-biodegradable)
Chemical oxygen demand (COD): nonoxidizable.
Biological oxygen demand (BOD): nonoxidizable.
Substance half-life: > 30 days.

Bioaccumulative potential: Cumulativeness: weak.
Mobility in soil: Toxic effect on soil invertebrates: bacterial toxicity: EC0> 5000 mg/l (Pseudomonas fluorescens, Escherichia coli; 24 hours).
Results of PBT&vPvB assessment: The substance is not a persistent bioaccumlative one.
Other adverse effects: Do not empty into drains.

Section 13: Disposal Conditions

Waste treatment methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. If an empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

Section 14: Transport Information

Not classed as dangerous for transport.

International Transport Regulations	**ADR/RID**	**ADN**	**IMDG**	**ICAO/IATA**
UN number	Not applicable	Not applicable	Not applicable	Not applicable
Proper shipping name	Not applicable	Not applicable	Not applicable	Not applicable
Transport hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable
Packing group	Not applicable	Not applicable	Not applicable	Not applicable
Environmental hazards	None	None	None	None
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL73/78 and The IBC Code	Not applicable	Not applicable	Not applicable	Not applicable

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young people must be observed. For use only by technically qualified individuals.

Other National regulations

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 311/312 Hazards: No SARA Hazards

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.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop 65 Warning: This product contains a chemical known to the State of California to cause cancer., Titanium dioxide (airborne, unbound particles of respirable size) is known to the state of California to cause cancer. This listing does not cover titanium dioxide when it remains bound within a product matrix. Titanium Dioxide CAS No.: 13463-67-7

The components of this product are reported in the following inventories:

CH INV	On the inventory, or in compliance with the inventory
TSCA	On the inventory, or in compliance with the inventory
DSL	All components of this product are on the Canadian DSL
AICS	On the inventory, or in compliance with the inventory
NZIoC	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TCSI	On the inventory, or in compliance with the inventory

Inventories:AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D)

No substances are subject to TSCA 12(b) export notification requirements.

Section 16: Other Information

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