



TKB TRADING, LLC 1101 9th Avenue  
Oakland, CA 94606  
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www.tkbtrading.com

## **SAFETY DATA SHEET**

Revision Date: 5-28-2021

### **1. Identification**

**Product identifier used on the label**

**After Twilight**

**Recommended use of the chemical and restriction on use**

Recommended use\*: pigments

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:  
TKB Trading LLC

1101 9th Ave, Oakland, CA 94606

Telephone: +1 (510) 922-9027

**Other means of identification**

Chemical family:	metal oxides
INCI Name:	Mica, Titanium Dioxide, Iron Oxides, Chroma Oxide Greens

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### **2. Hazards Identification**

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

**Classification of the product**

No need for classification according to GHS criteria for this product.

**Label elements**

The product does not require a hazard warning label in accordance with GHS criteria.

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**Hazards not otherwise classified**

No specific dangers known, if the regulations/notes for storage and handling are considered.

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**3. Composition / Information on Ingredients**

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
13463-67-7	35.0 - 46.0%	Titanium dioxide
12001-26-2	27.0 - 52.0%	Mica-group minerals
1308-38-9	2.0 - 8.0%	dichromium trioxide
1309-37-1	1.0 - < 5.0%	Iron oxide

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**4. First-Aid Measures**

**Description of first aid measures**

**General advice:**

Remove contaminated clothing.

**If inhaled:**

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek immediate medical attention.

**If swallowed:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

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

Hazards: No hazard is expected under intended use and appropriate handling.

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

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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**5. Fire-Fighting Measures**

**Extinguishing media**

Additional information:

Use extinguishing measures to suit surroundings.

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



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Hazards during fire-fighting:  
No particular hazards known.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Wear self-contained breathing apparatus and chemical-protective clothing.

### Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### Environmental precautions

Do not empty into drains.

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.  
For large amounts: Pick up with suitable appliance and dispose of.

Spills should be contained and placed in suitable containers for disposal.

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## 7. Handling and Storage

### Precautions for safe handling

Avoid dust formation. Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:  
No special precautions necessary.

See MSDS section 5 - Fire fighting measures. Prevent electrostatic charge accumulation.

### Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE)

Further information on storage conditions: No special precautions necessary.  
Keep in a cool place. Keep container dry.

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## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

dichromium trioxide	OSHA PEL	PEL 0.5 mg/m <sup>3</sup> (Chromium (Cr)); TWA value 1 mg/m <sup>3</sup> ;
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Iron oxide	OSHA PEL	PEL 10 mg/m <sup>3</sup> fumes/smoke ; TWA value 10 mg/m <sup>3</sup> fumes/smoke ;
	ACGIH TLV	TWA value 5 mg/m <sup>3</sup> Respirable fraction ;
Mica-group minerals	OSHA PEL	TWA value 3 mg/m <sup>3</sup> Respirable dust ; TWA value 20 millions of particles per cubic foot of air ;
	ACGIH TLV	TWA value 3 mg/m <sup>3</sup> Respirable fraction ;
Titanium dioxide	OSHA PEL	PEL 15 mg/m <sup>3</sup> Total dust ; TWA value 10 mg/m <sup>3</sup> Total dust ;
	ACGIH TLV	TWA value 10 mg/m <sup>3</sup> ;

**Personal protective equipment**

**Respiratory protection:**

Observe OSHA regulations for respirator use (29 CFR 1910.134). Wear a NIOSH-certified (or equivalent) particulate respirator.

**Hand protection:**

Chemical resistant protective gloves

**Eye protection:**

Safety glasses with side-shields.

**Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**General safety and hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Hands and/or face should be washed before breaks and at the end of the shift. Wash soiled clothing immediately.

**9. Physical and Chemical Properties**

Form:	powder
Odour:	odourless
Odour threshold:	not determined
Colour:	grey to green
pH value:	5.0 - 9.0 ( 4 %(m))
Melting point:	The substance / product decomposes.
Boiling point:	not applicable, solid with a melting temperature over 300 °C
Flash point:	not applicable
Flammability:	not flammable
Flammability of Aerosol Products:	not applicable, the product does not form flammable aerosoles
Lower explosion limit:	For solids not relevant for classification and labelling.

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Upper explosion limit:	For solids not relevant for classification and labelling.
Autoignition:	Study does not need to be conducted.
Vapour pressure:	not applicable
Density:	3.4 kg/l ( 20 °C)
Relative density:	3.4
Bulk density:	270 kg/m <sup>3</sup>
Vapour density:	The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Pow):	Study does not need to be conducted.
Self-ignition temperature:	not self-igniting
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	Study does not need to be conducted.
Viscosity, kinematic:	not applicable, the product is a solid
Solubility in water:	insoluble
Evaporation rate:	The product is a non-volatile solid.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section., No further information available.

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## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:  
No corrosive effect on metal.

Oxidizing properties:  
not fire-propagating

### Chemical stability

The product is chemically stable.

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.  
The product is chemically stable.  
Hazardous polymerization will not occur.

### Conditions to avoid

Avoid dust formation.

### Incompatible materials

oxidizing agents

### Hazardous decomposition products

Decomposition products:  
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:  
No decomposition if stored and handled as prescribed/indicated.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

#### Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Inhalation

*Information on: Titanium dioxide*

*Type of value: LC50*

*Species: rat*

*Value: > 6.82 mg/l (other)*

*Exposure time: 4 h*

*Tested as dust aerosol.*

*No mortality was observed.*

*Information on: dichromium trioxide*

*Type of value: LC50*

*Species: rat*

*Value: > 5.41 mg/l (OECD Guideline 403)*

*Exposure time: 4 h*

*An aerosol was tested.*

#### Assessment other acute effects

Assessment of STOT single:

Based on available Data, the classification criteria are not met.

#### Irritation / corrosion

Assessment of irritating effects: Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties. Prolonged contact with the product can result in skin irritation. Irritating to the eyes upon prolonged contact.

*Information on: dichromium trioxide*

*Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.*

#### Skin

May cause mechanical irritation.

#### Eye

May cause mechanical irritation.



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Aspiration Hazard

No aspiration hazard expected.

**Chronic Toxicity/Effects**

Repeated dose toxicity

Assessment of repeated dose toxicity: Prolonged or repeated exposure may cause pulmonary problems. The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Mica-group minerals*

*Information on: Iron oxide (Fe<sub>3</sub>O<sub>4</sub>)*

*Assessment of repeated dose toxicity: Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease). The substance may cause increase in lung mass and lung tissue changes after repeated inhalation.*

*Information on: dichromium trioxide*

*Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects. Repeated inhalative uptake of the substance did not cause substance-related effects.*

*Information on: Iron oxide*

*Assessment of repeated dose toxicity: Short-term inhalation (5 days) of low aerosol concentrations did not cause substance-specific effects in animal studies. The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).*

Genetic toxicity

*Information on: dichromium trioxide*

*Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was mutagenic in a mammalian cell culture test system. The substance was genotoxic in mammalian cell culture. The substance was not genotoxic in a test with mammals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.*

Carcinogenicity

Assessment of carcinogenicity: Contains a compound classified as IARC Group 2B (possibly carcinogenic to humans). A clear indication of an increased risk of cancer in humans has so far not been shown. The whole of the information assessable provides no indication of a carcinogenic effect.

*Information on: Titanium dioxide*

*Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.*

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Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity

*Information on: dichromium trioxide*

*Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The results were determined in a Screening test (OECD 421/422).*

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

**Symptoms of Exposure**

Medical conditions aggravated by overexposure

Inhalation of dust could aggravate existing respiratory conditions.

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**12. Ecological Information**

**Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish

LC50 (96 h) > 100 mg/l, Fish

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates

*Information on: Iron oxide*

*LC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)*

*The details of the toxic effect relate to the nominal concentration. Tested above maximum solubility.*

**Microorganisms/Effect on activated sludge**

Toxicity to microorganisms

activated sludge/EC0: > 100 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

**Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O)

The colourant is insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plant





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**Mobility in soil**

Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is possible.

**Additional information**

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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**13. Disposal considerations**

**Waste disposal of substance:**

Must be disposed of or incinerated in accordance with local regulations.

Dispose of in a licensed facility. Do not discharge into drains/surface waters/groundwater. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA. This product does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity, or toxicity).

**Container disposal:**

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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**14. Transport Information**

**Land transport**

USDOT

Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

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**15. Regulatory Information**

**Federal Regulations**

**Registration status:**

Cosmetic TSCA, US released / exempt

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

**EPCRA 313:**

**CAS Number**

**Chemical name**



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1308-38-9 dichromium trioxide

**CERCLA RQ**  
10 LBS

**CAS Number**  
1308-38-9

**Chemical name**  
dichromium trioxide

**State regulations**

**State RTK**  
PA

**CAS Number**  
12001-26-2

**Chemical name**  
Mica-group minerals

13463-67-7

Titanium dioxide

1309-37-1

Iron oxide

MA

12001-26-2

Mica-group minerals

1308-38-9

dichromium trioxide

1309-37-1

Iron oxide

13463-67-7

Titanium dioxide

NJ

12001-26-2

Mica-group minerals

13463-67-7

Titanium dioxide

1308-38-9

dichromium trioxide

1309-37-1

Iron oxide

**NFPA Hazard codes:**

Health: 1      Fire: 1      Reactivity: 0      Special:

**HMIS III rating**

Health: 1      Flammability: 1      Physical hazard: 0

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**16. Other Information**

**SDS Prepared by:**

TKB Trading LLC

SDS Prepared on: 2021/28/5

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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After Twilight END OF DATA SHEET