

SAFETY DATA SHEET

1 Identification

- *Product identifier*
- *Product name: Titanium Dioxide - Rutile*
- *Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.*
- *Application of the substance / the mixture Additive for cosmetic or pharmaceutical preparations*
- *Details of the supplier of the safety data sheet*

Supplier:

TKB TRADING, LLC
1101 9th Avenue
Oakland, CA 94606
Tel: 510-922-9027
www.tkbtrading.com

2 Hazard(s) identification

- *Classification of the substance or mixture*



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

- *US DOT Regulations Not classified as hazardous for transport by US Department Of Transportation.*
- *Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.*
- *Information concerning particular hazards for human and environment:
The product has to be labeled due to the calculation procedure of international guidelines.*
- *Label elements*
- *GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).*
- *Hazard pictograms*



GHS08

- *Signal word Warning*
 - *Hazard-determining components of labeling:
titanium dioxide*
 - *Hazard statements
H351 Suspected of causing cancer.*
 - *Precautionary statements*
- P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
P201 *Obtain special instructions before use.*
P202 *Do not handle until all safety precautions have been read and understood.*
P308+P313 *IF exposed or concerned: Get medical advice/attention.*
P405 *Store locked up.*
P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

SAFETY DATA SHEET

(Contd. of page 1)

- *Other hazards*
- *Results of PBT and vPvB assessment*
- *PBT: Not applicable.*
- *vPvB: Not applicable.*

3 Composition/information on ingredients

- *Chemical characterization: Mixtures*
- *Description: Mixture of the substances listed below with nonhazardous additions.*
- *Dangerous components:*
13463-67-7 titanium dioxide

4 First-aid measures

- *Description of first aid measures*
- *After inhalation: Supply fresh air; consult doctor in case of complaints.*
- *After skin contact: Generally the product does not irritate the skin.*
- *After eye contact: Rinse opened eye for several minutes under running water.*
- *After swallowing: If symptoms persist consult doctor.*
- *Information for doctor:*
- *Most important symptoms and effects, both acute and delayed No further relevant information available.*
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- *Extinguishing media*
- *Suitable extinguishing agents:*
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- *Special hazards arising from the substance or mixture No further relevant information available.*
- *Advice for firefighters*
- *Protective equipment: Wear self-contained respiratory protective device.*

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Avoid formation of dust.*
- *Environmental precautions: Do not allow to enter sewers/ surface or ground water.*
- *Methods and material for containment and cleaning up: Pick up mechanically.*
- *Reference to other sections*
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- *Handling:*
- *Precautions for safe handling*
Prevent formation of dust.
Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 3)

SAFETY DATA SHEET

(Contd. of page 2)

- *Information about protection against explosions and fires: No special measures required.*
- *Conditions for safe storage, including any incompatibilities*
- **Storage:**
- *Requirements to be met by storerooms and receptacles: No special requirements.*
- *Information about storage in one common storage facility: Not required.*
- *Further information about storage conditions: None.*
- *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

- *Additional information about design of technical systems: No further data; see item 7.*
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
13463-67-7 titanium dioxide
- *PEL Long-term value: 15* mg/m³*
 **total dust*
- *REL See Pocket Guide App. A*
- *TLV Long-term value: 10 mg/m³*
 withdrawn from NIC
- *Additional information: The lists that were valid during the creation were used as basis.*
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** *Wash hands before breaks and at the end of work.*
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** *Not required.*

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- Form:** *Crystalline powder*
- Color:** *Black*
- **Odor:** *Characteristic*
- **Odour threshold:** *Not determined.*

(Contd. on page 4)

SAFETY DATA SHEET

(Contd. of page 3)

· <i>pH-value:</i>	<i>Not applicable.</i>
· <i>Change in condition</i>	
<i>Melting point/Melting range:</i>	<i>>1800 °C (>3272 °F)</i>
<i>Boiling point/Boiling range:</i>	<i>2501 °C (4534 °F)</i>
· <i>Flash point:</i>	<i>Not applicable.</i>
· <i>Flammability (solid, gaseous):</i>	<i>Not determined.</i>
· <i>Ignition temperature:</i>	
<i>Decomposition temperature:</i>	<i>Not determined.</i>
· <i>Auto igniting:</i>	<i>Product is not selfigniting.</i>
· <i>Danger of explosion:</i>	<i>Product does not present an explosion hazard.</i>
· <i>Explosion limits:</i>	
<i>Lower:</i>	<i>Not determined.</i>
<i>Upper:</i>	<i>Not determined.</i>
· <i>Vapor pressure:</i>	<i>Not applicable.</i>
· <i>Density at 20 °C (68 °F):</i>	<i>ca.3.8 g/cm³ (ca.31.711 lbs/gal)</i>
· <i>Bulk density at 20 °C (68 °F):</i>	<i>ca.5 kg/m³</i>
· <i>Relative density</i>	<i>Not determined.</i>
· <i>Vapour density</i>	<i>Not applicable.</i>
· <i>Evaporation rate</i>	<i>Not applicable.</i>
· <i>Solubility in / Miscibility with</i>	
<i>Water:</i>	<i>Dispersible.</i>
· <i>Partition coefficient (n-octanol/water):</i>	<i>Not determined.</i>
· <i>Viscosity:</i>	
<i>Dynamic:</i>	<i>Not applicable.</i>
<i>Kinematic:</i>	<i>Not applicable.</i>
· <i>Solvent content:</i>	
<i>Organic solvents:</i>	<i>0.0 %</i>
<i>Solids content:</i>	<i>100.0 %</i>
· <i>Other information</i>	<i>No further relevant information available.</i>

10 Stability and reactivity

- *Reactivity*
- *Chemical stability*
- *Thermal decomposition / conditions to be avoided:* *No decomposition if used according to specifications.*
- *Possibility of hazardous reactions* *No dangerous reactions known.*
- *Conditions to avoid* *No further relevant information available.*
- *Incompatible materials:* *No further relevant information available.*
- *Hazardous decomposition products:* *No dangerous decomposition products known.*

(Contd. on page 5)

SAFETY DATA SHEET

(Contd. of page 4)

11 Toxicological information

- *Information on toxicological effects*
- *Acute toxicity:*
- *Primary irritant effect:*
- *on the skin: No irritant effect.*
- *on the eye: No irritating effect.*
- *Sensitization: No sensitizing effects known.*
- *Additional toxicological information:*
- *Carcinogenic categories*
- *IARC (International Agency for Research on Cancer)*
13463-67-7 titanium dioxide
- *NTP (National Toxicology Program)*
None of the ingredients is listed.
- *OSHA-Ca (Occupational Safety & Health Administration)*
None of the ingredients is listed.

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12 Ecological information

- *Toxicity*
- *Aquatic toxicity: No further relevant information available.*
- *Persistence and degradability No further relevant information available.*
- *Behavior in environmental systems:*
- *Bioaccumulative potential No further relevant information available.*
- *Mobility in soil No further relevant information available.*
- *Additional ecological information:*
- *General notes:*
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- *Results of PBT and vPvB assessment*
- *PBT: Not applicable.*
- *vPvB: Not applicable.*
- *Other adverse effects No further relevant information available.*

13 Disposal considerations

- *Waste treatment methods*
- *Recommendation:*
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- *Uncleaned packagings:*
- *Recommendation: Disposal must be made according to official regulations.*

14 Transport information

- *UN-Number* -
- *UN proper shipping name* -
- *Transport hazard class(es)* -

(Contd. on page 6)

SAFETY DATA SHEET

(Contd. of page 5)

- *Packing group*
- *Environmental hazards:*
- *Marine pollutant:* No
- *Special precautions for user* Not applicable.
- *Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code* Not applicable.

15 Regulatory information

- *Safety, health and environmental regulations/legislation specific for the substance or mixture*
- *Sara*
- *Section 355 (extremely hazardous substances):*
None of the ingredients is listed.
- *Section 313 (Specific toxic chemical listings):*
None of the ingredients is listed.
- *TSCA (Toxic Substances Control Act):*
All ingredients are listed.
- *Proposition 65*
- *Chemicals known to cause cancer:*
13463-67-7 titanium dioxide
- *Chemicals known to cause reproductive toxicity for females:*
None of the ingredients is listed.
- *Chemicals known to cause reproductive toxicity for males:*
None of the ingredients is listed.
- *Chemicals known to cause developmental toxicity:*
None of the ingredients is listed.
- *Carcinogenic categories*
- *EPA (Environmental Protection Agency)*
None of the ingredients is listed.
- *TLV (Threshold Limit Value established by ACGIH)*
13463-67-7 titanium dioxide
- *NIOSH-Ca (National Institute for Occupational Safety and Health)*
13463-67-7 titanium dioxide
- *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS).
- *Hazard pictograms*

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GHS08

- *Signal word* Warning
- *Hazard-determining components of labeling:*
titanium dioxide



SAFETY DATA SHEET

(Contd. of page 6)

· **Hazard statements**

H351 Suspected of causing cancer.

· **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Carc. 2: Carcinogenicity. Hazard Category 2