



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

# Safety Data Sheet

## HP1 Z-COTE ZINC OXIDE

Revision date : 2017/04/18  
Version: 2.0

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(30083072/SDS\_COS\_US/EN)

### 1. Identification

#### Product identifier used on the label

**HP1 Z-COTE ZINC OXIDE**

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

Recommended use\*: cosmetic ingredient

\* 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 Avenue  
Oakland, CA 94606  
Tel: 510-922-9027  
www.tkbtrading.com

#### Other means of identification

Chemical family:	No applicable information available.
Synonyms:	Zinc oxide (ZnO)
INCI Name:	Zinc Oxide (and) Triethoxycaprylylsilane

### 2. Hazards Identification

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

#### Classification of the product

Aquatic Acute	1	Hazardous to the aquatic environment - acute
Aquatic Chronic	1	Hazardous to the aquatic environment - chronic

#### Label elements

Pictogram:

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Signal Word:  
Warning

Hazard Statement:

H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P273 Avoid release to the environment.

Precautionary Statements (Response):

P391 Collect spillage.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

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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>
1314-13-2	>= 75.0 - <= 100.0%	Zinc oxide

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### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

If adverse health effects develop seek medical attention.

##### 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 in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention if necessary.

##### If swallowed:

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

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

Symptoms: No significant reaction of the human body to the product known.

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

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

#### Note to physician

Treatment: Treat symptomatically.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
water spray, carbon dioxide, foam, dry powder

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

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

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## 6. Accidental release measures

### Further accidental release measures:

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear appropriate respiratory protection.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater.

### 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.  
Dispose of absorbed material in accordance with regulations.

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## 7. Handling and Storage

### Precautions for safe handling

Avoid aerosol formation.

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

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Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

### Conditions for safe storage, including any incompatibilities

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

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

Zinc oxide	OSHA PEL	PEL 15 mg/m3 Total dust ; PEL 5 mg/m3 Respirable fraction ; PEL 5 mg/m3 fumes/smoke ; STEL value 10 mg/m3 fumes/smoke ; TWA value 10 mg/m3 Total dust ; TWA value 5 mg/m3 Respirable fraction ; TWA value 5 mg/m3 fumes/smoke ;
	ACGIH TLV	TWA value 2 mg/m3 Respirable fraction ; STEL value 10 mg/m3 Respirable fraction ;

### Advice on system design:

If dust formation caused by handling cannot be avoided Staubex equipment for plants may be necessary. Ensure adequate ventilation.

### Personal protective equipment

#### Respiratory protection:

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. head protection, apron, protective boots, chemical-protection suit.

### General safety and hygiene measures:

Avoid contact with eyes. Avoid inhalation of dusts. Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

Form:	powder
Odour:	odourless
Odour threshold:	not applicable, odour not perceivable
Colour:	white

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pH value:	approx. 7 ( 50 g/l, 20 °C) (as suspension)
Melting point:	approx. 1,970 °C
Boiling point:	not applicable, solid with a melting temperature over 300 °C
Flash point:	not applicable, the product is a solid
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.
Upper explosion limit:	For solids not relevant for classification and labelling.
Autoignition:	not determined
Vapour pressure:	not applicable, solid with a melting temperature over 300 °C
Bulk density:	approx. 500 - 700 kg/m <sup>3</sup> Literature data. 500 kg/m <sup>3</sup>
Vapour density:	The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Self-ignition temperature:	Based on its structural properties the product is not classified as self-igniting.
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	not applicable
Viscosity, kinematic:	not applicable, the product is a solid
Particle size:	Contains agglomerates / aggregates of nanoparticles
Solubility in water:	insoluble
Evaporation rate:	The product is a non-volatile solid.
Other Information:	primary particle size < 200 nm If necessary, information on other physical and chemical parameters is indicated in this section. No further information available.

## 10. Stability and Reactivity

### Reactivity

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

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

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

### Conditions to avoid

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See MSDS section 7 - Handling and storage.

### Incompatible materials

hydrogen peroxide, magnesium

### 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: > 5,000 mg/kg

#### Inhalation

No applicable information available.

#### Dermal

No applicable information available.

#### Assessment other acute effects

Assessment of STOT single:

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

#### Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

#### Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

#### Aspiration Hazard

No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Repeated dose toxicity

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Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion. Prolonged and repeated exposure may cause blood disorders. The substance may cause damage to the lung after repeated inhalation.

### Genetic toxicity

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

### Carcinogenicity

Assessment of carcinogenicity: Based on the ingredients there is no suspicion of a carcinogenic effect in humans. The product has not been tested. The statement has been derived from the properties of the individual components.

### Reproductive toxicity

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

### Teratogenicity

Assessment of teratogenicity: No data was available concerning toxicity to development.

### 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**

No significant reaction of the human body to the product known.

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## **12. Ecological Information**

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic (acute effect) to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

#### Toxicity to fish

LC50 > 0.1 - 1 mg/l

### **Microorganisms/Effect on activated sludge**

#### Toxicity to microorganisms

EC0: > 1 - 10 mg/l

### **Persistence and degradability**

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

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

### **Bioaccumulative potential**

#### Assessment bioaccumulation potential

No data available.

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### Mobility in soil

Assessment transport between environmental compartments  
not applicable

### 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:

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

### 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

Hazard class:	9
Packing group:	III
ID number:	UN 3077
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains ZINC OXIDE)

### Air transport

IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3077
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains ZINC OXIDE)

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## 15. Regulatory Information

### Federal Regulations

Registration status:



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Chemical TSCA, US released / listed  
Cosmetic TSCA, US released / exempt

**EPCRA 311/312 (Hazard categories):** Not hazardous;

**EPCRA 313:**

<u>CAS Number</u>	<u>Chemical name</u>
1314-13-2	Zinc oxide

**NFPA Hazard codes:**

Health : 1      Fire: 0      Reactivity: 0      Special:

### 16. Other Information

**SDS Prepared by:**  
Product Regulations  
SDS Prepared on: 2017/04/18

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