

Safety Data Sheet

Hilite Green

Revision date : 2012/06/01
Version: 1.1

Page: 1/8
(30322529/SDS COS US/EN)

1. Product and Company Identification

Supplier:
TKB TRADING, LLC
1101 9th Avenue
Oakland, CA 94606, USA
Telephone: +1 510 451 9011

2. Hazards Identification

Emergency overview

WARNING:
May cause cancer by inhalation.
Contains a suspect carcinogen.
Prolonged or repeated exposure may cause pulmonary problems.

State of matter: solid
Colour: off-white with pale green reflection
Odour: odourless

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Irritation / corrosion:
Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties. Contact with the eyes or skin may cause mechanical irritation.

Chronic toxicity:

Carcinogenicity: May cause cancer by inhalation. Contains a compound classified as IARC Group 2B (possibly carcinogenic to humans).

Repeated dose toxicity: Prolonged or repeated exposure may cause pulmonary problems.

Medical conditions aggravated by overexposure:
Inhalation of dust could aggravate existing respiratory conditions.

Signs and symptoms of overexposure:
Further important symptoms and effects are so far not known.

Safety Data Sheet

Hilite Green

Revision date : 2012/06/01
Version: 1.1

Page: 2/8
(30322529/SDS COS US/EN)

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Potential environmental effects

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

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
1317-80-2	53.0 - 63.0 %	Rutile (TiO ₂)
12001-26-2	35.0 - 47.0 %	Mica-group minerals
18282-10-5	0.2 - 2.0 %	Tin oxide (SnO ₂)

4. 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 medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Seek medical attention if necessary.

Note to physician

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

5. Fire-Fighting Measures

Flash point: not applicable
Autoignition: Study does not need to be conducted.
Flammability: does not ignite

Suitable extinguishing media:
dry powder, foam

Unsuitable extinguishing media for safety reasons:
carbon dioxide

Hazards during fire-fighting:

No particular hazards known.

Safety Data Sheet

Hilite Green

Revision date : 2012/06/01
Version: 1.1

Page: 3/8
(30322529/SDS COS US/EN)

Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

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

If exposed to fire, keep containers cool by spraying with water.

6. Accidental release measures

Personal precautions:
Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

Environmental precautions:
Do not empty into drains.

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

Cleanup:
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.

7. Handling and Storage

Handling

General advice:
Breathing must be protected when large quantities are decanted without local exhaust ventilation. Avoid contact with the skin, eyes and clothing.

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.

Storage

General advice:
Keep in a cool place. Keep container dry.

8. Exposure Controls and Personal Protection

Personal protective equipment

Respiratory protection:
Observe OSHA regulations for respirator use (29 CFR 1910.134). Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:
Chemical resistant protective gloves

Safety Data Sheet

Hilite Green

Revision date : 2012/06/01

Version: 1.1

Page: 4/8
(30322529/SDS COS US/EN)

Eye protection:

Safety glasses with side-shields.

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	
Colour:	off-white with pale green reflection	
pH value:	7.0 - 11.0	(4 %(m))
Melting point:		The substance / product decomposes.
Density:	3.4 g/cm3	(approx. 20 °C)
Relative density:	3.4	
Bulk density:	300 kg/m3	
Vapour density:		The product is a non-volatile solid.
Viscosity, dynamic:		Study does not need to be conducted.
Particle size:	D95 6 - 48 µm	
Solubility in water:		insoluble
Solubility in other solvents:		insoluble
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Conditions to avoid:

Avoid dust formation. Avoid deposition of dust. See MSDS section 7 - Handling and storage.

Substances to avoid:

No substances known that should be avoided.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

Hazardous polymerization will not occur.

Decomposition products:

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

Thermal decomposition:

No data available.

11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

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Safety Data Sheet

Hilite Green

Revision date : 2012/06/01
Version: 1.1

Page: 5/8
(30322529/SDS COS US/EN)

Inhalation:

Type of value: LC50
not determined

Dermal:

Type of value: LD50
not determined

Irritation / corrosion

Skin:

May cause mechanical irritation.

Eye:

May cause mechanical irritation.

Sensitization:

No data available concerning sensitizing effects.

Carcinogenicity

Information on: Rutile (TiO₂)

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.

Aspiration Hazard:

No aspiration hazard expected.

12. Ecological Information

Fish

Acute:

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

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

Chronic:

No data available.

Aquatic invertebrates

Acute:

daphnia/LC50 (48 h):

not determined

Chronic:

No data available.

Aquatic plants

Toxicity to aquatic plants:

Safety Data Sheet

Hilite Green

Revision date : 2012/06/01

Version: 1.1

Page: 6/8
(30322529/SDS COS US/EN)

algae/EC50 (72 h):
not determined

Microorganisms

Toxicity to microorganisms:

bacteria/EC50 (0.5 h):
not determined

Degradability / Persistence Biological / Abiological Degradation

Evaluation: Not readily biodegradable (by OECD criteria).
The colourant is insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plant

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.

Container disposal:

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

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

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

Cosmetic TSCA, US released / exempt

Safety Data Sheet

Hilite Green

Revision date : 2012/06/01
Version: 1.1

Page: 7/8
(30322529/SDS COS US/EN)

OSHA hazard category: IARC 1, 2A or 2B carcinogen; Chronic target organ effects reported; OSHA PEL established; ACGIH TLV established

EPCRA 311/312 (Hazard categories): Acute; Chronic

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	1317-80-2	Rutile (TiO ₂)
MA, NJ, PA	12001-26-2	Mica-group minerals
MA, NJ	18282-10-5	Tin oxide (SnO ₂)

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

16. Other Information

HMIS III rating

Health: 1⁺ Flammability: 0 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

MSDS Prepared on: 2012/06/01

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Safety Data Sheet

Hilite Green

Revision date : 2012/06/01
Version: 1.1

Page: 8/8
(30322529/SDS COS US/EN)

END OF DATA SHEET