

Safety Data Sheet

KOWET TITANIUM DIOXIDE

Safety Data Sheet dated: 14 November 2024 - version 5

Date of first edition: 21 July 2020

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: KOWET TITANIUM DIOXIDE

Other means of identification:

Trade code: 500095X25

EC number: 236-675-5

Recommended use of the chemical and restrictions on use:

Recommended use: Manufacture of food products

Restrictions on use: Not available

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Sensient Colors LLC

2515 N. Jefferson Avenue

63106 St. Louis, MO (USA)

Phone: 1 800-325-8110

Outside US: 1-703-527-3887

CHEMTREC Administrative Office Telephone Number 1-800-262-8200

Initial Supplier Identifier
Données relatives au fournisseur

Univar Solutions Canada Ltd.

64 Arrow Road
North York, ON M9M 2L9
Telephone: 1-866-686-4827

2. HAZARD(S) 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

Combustible dust

May form combustible dust concentrations in air.

Label elements

Hazard pictograms and Signal Word

Warning

Hazard statements

USH003 May form combustible dust concentrations in air.

Hazards not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not determined

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification are as follows. The identify of one or more individual components of this mixture and/or the exact percentage concentrations of disclosed components of this mixture are considered proprietary information and are being withheld as trade secret information pursuant to 29 CFR 1910.1200(i).

None

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

Not determined

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂).

Water.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion or combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not determined

Explosive properties: Not determined

Oxidizing properties: Not determined

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water. Do not discharge into drains.

Move undamaged containers from immediate hazard area but only if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

In a dry place in original container

Incompatible materials:

None in particular.

Instructions regarding storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Community Occupational Exposure Limits (OEL)

OEL Type	Occupational Exposure Limit
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ACGIH	Long Term: 10 mg/m ³
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	Notes: A4 - Not Classifiable as a Human Carcinogen; lower respiratory tract irritation;
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ACGIH	Long Term: 10 mg/m ³
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	Notes: lower respiratory tract irritation; A4 - Not Classifiable as a Human Carcinogen;
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ACGIH Long Term: 10 mg/m³
Notes: A4 - Not Classifiable as a Human Carcinogen; lower respiratory tract irritation

ACGIH Long Term: 10 mg/m³
Notes: lower respiratory tract irritation; A4 - Not Classifiable as a Human Carcinogen

EU Long Term: 10 mg/m³

ACGIH Long Term: 0.2 mg/m³
Notes: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; lower respiratory tract irritation; pneumoconiosis

ACGIH Long Term: 2.5 mg/m³
Notes: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; lower respiratory tract irritation; pneumoconiosis

Predicted No Effect Concentration (PNEC) values

Exposure Route: Water; PNEC Limit: 1 mg/l

Exposure Route: N.A.; PNEC Limit: 1000 mg/kg

Exposure Route: Soil (agricultural); PNEC Limit: 0.127 mg/l

Exposure Route: Water; PNEC Limit: 100 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 100 mg/kg

Exposure Route: Soil; PNEC Limit: 100 mg/kg

Exposure Route: Air; PNEC Limit: 1667 mg/kg

Derived No Effect Level (DNEL) values

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 10 ; Worker Professional: 10 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 700 mg/m³

Appropriate engineering controls: Not determined

Individual protection measures

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Additional Protection:

Not needed for normal use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Solid

Appearance and colour: Free flowing powder White

Odour: Odorless

Odour threshold: Not determined

pH: Not determined

Melting point / freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: Not Applicable

Evaporation rate: Not determined

Upper/lower flammability or explosive limits: Not determined

Vapour density: Not determined

Vapour pressure: Not determined

Relative density: Not determined

Solubility in water: Insoluble

Solubility in oil: Insoluble

Partition coefficient (n-octanol/water): Not determined

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
Fat Solubility: Not determined
Conductivity: Not determined

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Titanium Dioxide	a) acute toxicity	LD50 Oral Rat > 10000 mg/kg LC50 Inhalation Rat > 6.82 mg/l 4h LC50 Inhalation Rat = 5.09 mg/l 4h LD50 Oral Rat > 10000 mg/kg

Substance(s) listed on the IARC Monographs:

Titanium Dioxide Group 2B

Substance(s) listed as OSHA Carcinogen(s):

Titanium Dioxide

Substance(s) listed as NIOSH Carcinogen(s):

Titanium Dioxide

Substance(s) listed on the NTP report on Carcinogens:
None

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Persistence and degradability

Not Available

Bioaccumulative potential

Not Available

Mobility in soil

Not Available

Other adverse effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules). Do not dump into sewers, any body of water or onto the ground.

Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN number

- ADR-UN number: N/A Not Available
- DOT-UN Number: Not Available
- IATA-Un number: Not Available
- IMDG-Un number: Not Available

UN proper shipping name

- ADR-Shipping Name: N/A
- DOT Proper Shipping Name: N/A
- IATA-Shipping Name: N/A
- IMDG-Shipping Name: N/A

Transport hazard class(es)

- ADR-Class: N/A
- DOT Hazard Class: N/A
- IATA-Class: N/A
- IMDG-Class: N/A

Packing group

- ADR-Packing Group: N/A
- DOT Packing Group: N/A
- IATA-Packing group: N/A
- IMDG-Packing group: N/A

Environmental hazards

- Marine pollutant: No
- Environmental Pollutant: Not Available

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Available

Special precautions

- Department of Transportation (DOT):
 - DOT-Special Provision(s): N/A
 - DOT Label(s): N/A
 - DOT Symbol: N/A
 - DOT Cargo Aircraft: N/A
 - DOT Passenger Aircraft: N/A
 - DOT/TDG Bulk: N/A
 - DOT Non-Bulk: N/A
- Road and Rail (ADR-RID):

ADR exempt: No
ADR-Label: N/A
ADR - Hazard identification number: N/A
ADR-Transport category (Tunnel restriction code): N/A

Air (IATA) :

IATA-Passenger Aircraft: N/A
IATA-Cargo Aircraft: N/A
IATA-Label: N/A
IATA-Subsidiary hazards: N/A
IATA-Erg: N/A
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisions: N/A
IMDG-EMS: N/A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All chemical substances in this material are included
on or are exempted from listing on the TSCA
Chemical Substance Inventory.

Section 313 - Toxic chemical list:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

Titanium Dioxide	Listed as carcinogen
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CANADA:

DSL-list (Canada)

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulation (CPR) and this MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Safety Data Sheet dated: 14 November 2024 - version 5

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet does not constitute a product warranty or specification. It is the responsibility of the recipient of the product to ensure that applicable law is observed in the use of the product.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
CLP: Classification, Labeling, Packaging.
EINECS: European Inventory of Existing Commercial Chemical Substances.
INCI: International Nomenclature of Cosmetic Ingredients.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
GefStoffVO: Ordinance on Hazardous Substances, Germany.
LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

N/A: Not Applicable

Paragraphs modified from the previous revision:

- 9. PHYSICAL AND CHEMICAL PROPERTIES