SAFETY DATA SHEET

Section 1. Identification

TKB Product Name : Extra Bright

TKB Product Code : KJ-302

Relevant identified uses of the substance or mixture and uses advised against

Identified uses
cosmetic ingredient

Manufacturer / Distributor

TKB Trading, 939 E 11th St, Oakland CA 94606
www.tkbtrading.com
support@tkbtrading.com

Emergency telephone number (with hours of operation) :

+1 (800) 424-9300 (U.S.) (24 hours)
+1 (703) 527-3887 (International) (24 hours)

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

Section 3. Composition/information on ingredients

Ingredient name	CAS number	%
Mica	12001-26-2	50 - 80
titanium dioxide	13463-67-7	25 - 50

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Remove contact lenses, if present and easy to do. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

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

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser.

Ingestion : Keep person warm and at rest. Wash out mouth with water. If swallowed, drink plenty of water. Do not induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remarks : not flammable

not explosive

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Avoid breathing dust. Put on appropriate personal protective equipment (see Section 8). Comply with the health and safety at work laws.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Do not reuse container. See Section 10 for incompatible materials before handling or use.

Remarks: : not flammable

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Mica	**OSHA PEL 1989 (United States, 3/1989).** TWA: 3 mg/m³ 8 hours. Form: Respirable dust **ACGIH TLV (United States, 3/2019).** TWA: 3 mg/m³ 8 hours. Form: Respirable fraction **NIOSH REL (United States, 10/2016).** TWA: 3 mg/m³ 10 hours. Form: Respirable fraction **OSHA PEL Z3 (United States, 6/2016).** TWA: 20 mppcf 8 hours.
titanium dioxide	**ACGIH TLV (United States, 3/2019).** TWA: 10 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 10 mg/m³ 8 hours. Form: Total dust **OSHA PEL (United States, 5/2018).** TWA: 15 mg/m³ 8 hours. Form: Total dust

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state	:	Solid. [Powder.]
Color	:	off-white with pearly reflection
Odor	:	Odorless.
Odor threshold	:	Not applicable.
pH	:	7 to 11 [Conc. (% w/w): 4%]
Melting point	:	>1000°C (>1832°F)
Boiling point	:	Not applicable
Flash point	:	Not applicable.
Evaporation rate	:	Not tested
Flammability (solid, gas)	:	not flammable
Lower and upper explosive (flammable) limits	:	Not tested
Vapor pressure	:	Not available.
Vapor density	:	Not tested
Relative density	:	3.2
Solubility	:	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not applicable.
Viscosity	:	Absolute Viscosity (room temperature) (cP):: Not applicable.

VOC

VOC % by W/W	:	0.0
VOC % by V/V	:	0.0
VOC Lbs./Gallon	:	0.0
VOC Lbs./Gallon without Water and exempt solvents	:	0.0
Bulk density	:	160 kg/m3
Self heating ability	:	It is not a substance capable of spontaneous heating.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	No specific data.
Incompatible materials	:	No specific data.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Extra Bright titanium dioxide	LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	>5000 mg/kg >6.82 mg/l >10000 mg/kg >5000 mg/kg	- 4 hours - -

Conclusion/Summary : Virtually nontoxic after a single ingestion.

Irritation/Corrosion

Product/ingredient name	Result	Species	Exposure	Observation
Extra Bright titanium dioxide	Eyes - non-irritant Skin - non-irritant Eyes - non-irritant Skin - Mild irritant Skin - non-irritant	Rabbit Rabbit Rabbit Human Rabbit	- - - 72 hours 300 ug l -	- - - - -

Conclusion/Summary

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

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

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Extra Bright titanium dioxide	skin skin	Guinea pig Mouse	Not sensitizing Not sensitizing

Conclusion/Summary

Skin : The chemical structure does not suggest a sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Mutagenicity

The product has not been tested.

Conclusion/Summary : The product has not been tested. The statement has been derived from the properties of the individual components. The chemical structure does not suggest a specific alert for such an effect. No data was available concerning mutagenic activity.

Carcinogenicity

The product has not been tested.

Conclusion/Summary : No carcinogenic potential can be deduced from other studies with rats and mice. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Classification

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-

Reproductive toxicity

The product has not been tested.

Conclusion/Summary : The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity

The product has not been tested.

Conclusion/Summary : No data was available concerning toxicity to development.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
irritation
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : 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.

General : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 11. Toxicological information

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Extra Bright	Acute EC0 >100 mg/l	Micro-organism	-
	Acute LC50 >100 mg/l	Fish	96 hours
titanium dioxide	Acute EC50 >1000 mg/l	Aquatic invertebrates. - Daphnia magna	48 hours
	Acute EC50 >61 mg/l	Aquatic plants - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >1000 mg/l	Micro-organism - activated sludge of a predominantly domestic sewag	3 hours
	Acute LC50 >1000 mg/l	Fish - Fundulus heteroclitus	96 hours
	Chronic EC10 >12.7 mg/l	Aquatic plants - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 100000 mg/kg	Aquatic invertebrates. - aquatic crustacea	28 days

Conclusion/Summary : At the present state of knowledge, no negative ecological effects are expected.

Persistence and degradability

The product has not been tested.

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

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
titanium dioxide	-	19 to 352	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

TSCA 8(b) inventory : Listed

U.S. Federal regulations :

SARA 313

	Product name	CAS number	%
Supplier notification	None identified.		

Toxics in Packaging (CONEG) : In compliance.

State regulations

Massachusetts : The following components are listed: Mica (12001-26-2), titanium dioxide (13463-67-7)

New York :

New Jersey : The following components are listed: Mica (12001-26-2), titanium dioxide (13463-67-7)

Pennsylvania : The following components are listed: Mica (12001-26-2), titanium dioxide (13463-67-7)

California Prop. 65

WARNING: This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level	%
titanium dioxide	Yes.	No.	-	-	25 - 50

Canada inventory : All components are listed or exempted.

International regulations

Section 15. Regulatory information

International lists : **Australia inventory (AIIC):** All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory (CSCL): All components are listed or exempted.
Korea inventory (KECI): All components are listed or exempted. / All components of this product are exempted and not subject to registration.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted. / Please contact your local supplier.
Turkey inventory: All components are listed or exempted.

Europe Inventory: Please contact your supplier to get the information.

Section 16. Other information

National Fire Protection Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of issue/Date of revision : 11/23/2022

Date of previous issue : 4/27/2022

Version : 2

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

HE1500

VOLATILE CHEMICALS REPORT

		US EPA Designate
A. Product Density:		
1.)	3.2 g/cm³ (26.705 lbs/gal)	=(Dc)s
B. Nonvolatile Content:		
1.)	100.0 Weight percent of nonvolatiles in product	=(Wn)s
2.)	100.0 Volume percent of nonvolatiles in product	=(Vn)s
3.)	26.69 Density, lb nonvolatiles/gal nonvolatiles	=(Dn)s
C. Volatiles:		
1.)	0.0 Weight percent of total volatiles in product	=(Wv)s
2.)	0 Density, lb volatiles/gal volatiles	=(Dv)s
D. Water Content:		
1.)	0.0 Weight percent of water in product	=(Ww)s
2.)	0.0 Volume percent of water in product	=(Vw)s
E. Volatile Organic Compounds, (VOCs):		
1.)	0.0 Weight percent of organic volatiles in product	=(Wo)s
2.)	0.0 Volume percent of organic volatiles in product	=(Vo)s
3.)	0 Density, lb organic volatiles/gal organic volatiles	=(Do)s
4.)	0.0 Weight percent of VOCs in total volatiles	=(Wo)v
5.)	0.0 Volume percent of VOCs in total volatiles	=(Vo)v
F. VOC Content in Product Expressed in Other Terms:		
1.) a.)	0.0 lb VOC / gal Product	
1.) b.)	0 grams VOC / liter Product	
2.) a.)	0.0 lb VOC / gal Product less water & exempt solvent	
2.) b.)	0 grams VOC / liter Product less water & exempt solvent	
2.) c.)	0.0 Weight percent of organic volatiles (VOC) in Product less water & exempt solvents.	
3.)	0.0 lb VOC / gal total nonvolatiles	

G. Volatiles

Chemical name	CAS number	% by weight	Density (lb/gal)
Other VOCs (Non-HAPs)			

NOTE:
The US EPA definition of VOC does not include water, ammonia or other exempt substances. The VOC values reported are based on current formulations and supplier data.
This report also serves as a Certified Product Data Sheet (CPDS) as defined by 40 CFR 63 National Emissions Standard for HAPS, Subpart KK for the Printing Industry