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BORON NITRIDE POWDER COSMETIC GRADE

Section 1 – Product and Company Identification

Manut	fact	urer/	Dist	ributor
manu	aut	urch	Digu	indutor

TKB TRADING, LLC 1101 9th Avenue Oakland, CA 94606

Phone Numbers

510-922-9027

Trade Names and Synonyms

BORON NITRIDE

CAS Name CAS Number TSCA Inventory status N/A 10043-11-5 Reported/Included

Section 2 – Hazards Identification

Emergency Overview

Prevention	Do not breathe dusts or mists.
Responses	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
Storage/Disposal	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Physical Form	Powder
Color	White to off-white
Odor	Odorless
Route of Entry	Inhalation, Skin, Eye, Ingestion.
Eye:	May cause eye irritation
Skin	May cause skin irritation
Aggravated by Exposure	None
Inhalation	Inhalation of dusts may cause temporary irritation of the nose and throat.
Ingestion	Ingestion can cause nausea, vomiting and gastrointestinal irritation.

Potential Health Effects

Inhalation

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Acute (Immediate)	Exposure to dust may cause irritation. Nuisance dust may affect the lungs but reactions to short duration, low level dosage exposures are typically reversible.
Chronic (Delayed)	No data available
Skin, Eyes	
Acute (Immediate)	Exposure to dust may cause mechanical irritation
Chronic (Delayed)	No data available
Ingestion	
Acute (Immediate)	Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.
Chronic (Delayed)	No data available.

See Section 12 for Ecological Information

Section 3 – Composition/Information on Ingredients

		N	on-Hazardous	Components		
Chemical Name	CAS	%(w t)	UN;EINECS	LD50/LC50	E R & S Phrases	Other
Boron Nitride	10043-11-5	99%-100%	233-136-6	NDA	NDA	None
Boron Oxide	1303-86-2	<0.5 %	N/A	NDA	NDA	None
Under Unite	ed States Regula	ations (29CFR 19	900-1200 - Hazard (Communication Stan	dard) this product is NOT ha	azardous.
In Canada,	the product mer	ntioned above is	not considered haza	rdous under the Wo	rkplace Hazardous Materials	s Information
System (M	HMIS). Accord	ing to European	Directive 1999/45/E	C this preparation is	not considered dangerous.	
According t	o Regulation (E	C) No. 1272/2008	3 (CLP) this material	is not considered ha	azardous.	
According t	o the Globally H	armonized Stand	lard for Classificatio	n and Labeling (GHS	6) this product is considered	not hazardous.

See Section 11 for Toxicological Information

Section 4 – First Aid Measures

Inhalation	Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.
Skin	In case of contact with substance, immediately flush skin with running water for at
	least 20 minutes. Remove and isolate contaminated clothing and shoes.
Eye	In case of contact with substance, immediately flush eyes with running water for at
•	least 20 minutes.
Ingestion	If swallowed, do NOT induce vomiting. Call a physician or poison control center
-	immediately. NEVER give anything by mouth to an unconscious person.

See Section 11 for Toxicological Information.

Section 5 – Fire Fighting Measures

Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media	No data available
Firefighting Procedures	LARGE FIRES: Move containers from fire area if you can do it – without risk
	LARGE FIRES: Do not scatter spilled material with high pressure water streams.
	LARGE FIRES: Dike fire-control water for later disposal.
	Keep unauthorized personnel away.
	Stay upwind.
Unusual Fire & Explosion Hazards	Material is non-combustible and is not expected to pose a fire or explosion hazard.
Hazardous Combustion Products	Decomposition of this product may yield oxides of boron and nitrogen.
Protection of Firefighters	Structural firefighter's protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 – Accidental Release Measures

Personal Precautions	Do not touch or walk through spilled material. Stay upwind. Use proper protective equipment as listed in section 8.
Emergency Procedures	As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. Keep unauthorized personnel away. Avoid runoff into sewers, ditches, and waterways.
Containment/Clean-up	Stop leak if you can do it without risk. Shovel or sweep for disposal. Avoid creating dusty conditions. Provide ventilation.
Measures	SMALL SPILLS: Take up with sand or other non combustible absorbent material and place into containers for later disposal LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

Section 7 – Handling and Storage

Handling

Storage

Special Packaging Materials Incompatible Materials or Ignition Sources

Avoid creating dusts. Do not use in areas without adequate ventilation. Wear eye protection (goggles, safety glasses or face mask). Wash hands thoroughly after handling. Ventilate enclosed areas. Keep container closed. Keep away from heat and incompatible materials. No data available No data available

Section 8 – Exposure Controls/Personal Protection

Personal Protective Equipment Pictograms

			Gloves, Safety Glasses	
Respiratory				tion, wear suitable respiratory equipment.
Eye/Face				oggles, face shield, or safety glasses).
Hands			Wear appropriate gloves.	
General Indu	strial Hygiene	Considerations	Do not get in eyes or on skin industrial hygiene and safety	or clothing. Handle in accordance with good practice.
Engineering			Good general ventilation and	/or local exhaust ventilation should be used.
Measures/Co	ntrols		Ventilation rates should be m	natched to conditions in order to ensure that ontaminants are below applicable threshold limit
Exposure Lin	nits/Guideline	s	No information available for p	product or components
			Exposure Limits/Guidelines	5
	Result		ACGIH	OSHA
Boron				
Nitride as	TWAs	10 mg/m3 TV	NA (inhalable particles,	15 mg/m3 TWA (total dust); 5mg/m3 TWA
Particulate			3 mg/m3 TWA (respirable	(respirable fraction)
is not		particle	s, recommended)	
otherwise				
classified		as Particulates not	t otherwise classified (PNOC)	as Particulates not otherwise classified (PNOC)
(PNOC)		_		

Key to abbreviations

- TWAEV = Time-Weighted Average Exposure Value TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
- VLA-ED = Valor Limite Ambiental Exposición Diaria is the limit for the daily average concentration
- ACGIH = American Conference of Governmental Industrial Hygiene OSHA = Occupational Safety and Health Administration

Section 9 – Physical and Chemical Properties

Physical Form Appearance/Description Powder Pure white color, nano or micron powder with no apparent odor

Color: Pure white		Odor: Odorless	
Taste: NDA		Odor Threshold: NDA	
Boiling Point:	NDA	Vapor Pressure:	NDA
Melting Point:	NDA	Vapor Density:	NDA
Specific Gravity:	2.0-2.50	Evaporation Rate:	NDA
Particle size:	0-30 micron	VOC (Wt.):	NDA
Structure	Hexagonal	VOC (Vol.):	NDA
pH:	NDA	Volatiles (Wt.):	NDA
Water Solubility:	Insoluble	Volatiles (Vol.):	NDA
Solvent Solubility:	NDA	Flash Point	NDA
Viscosity:	NDA	Flash Point Test Type:	NDA
Half-Life:	NDA	UEL:	NDA
Octanol/Water Partition coefficient	NDA	LEL:	NDA
Coefficient of water/oil distribution:	NDA	Auto ignition:	NDA
Bioaccumulation Factor:	NDA	Bio concentration Factor:	NDA
Biochemical Oxygen Demand BOD/BOD5:	NDA	Chemical Oxygen Demand:	NDA
Persistence:	NDA	Degradation:	NDA

Section 10 – Stability and Reactivity

Stability	*	Stable
Hazardous Polymerization	>	Hazardous polymerization will not occur
Conditions to Avoid	>	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers, and oxidizing agents.
Incompatible Materials	7	This product may react with strong acids or oxidizing agents.
Hazardous Decomposition Products	2	Decomposition of this product may result in oxides of boron and nitrogen. This will occur at 2204 'C (4000 'F).

Section 11 – Toxicological Information

Under normal conditions of use this material is not expected to pose any health risks. Exposure to this material may cause mechanical irritation to the skin, eyes and respiratory system.

Com onent Name	Concentration	CAS	Data
Boron Nitride	99%-100%	10043 11 5	Acute Toxicit : ;orl mus LD50:10 m/k

Key to abbreviations LD = Lethal Dose

Section 12 – Ecological Information

Ecological Fate	2	No data available
Persistence/Degradability	7	No data available
Bioaccumulation Potential	*	No data available
Mobility in Soil	2	No data available
No data available	2	No data available

Section 13 – Disposal Considerations

Product

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 – Transportation Information

- DOT United States Department of Transportation Shipping Name: Not Regulated
- TDG Canada Transport of Dangerous Goods Shipping Name: Not Regulated
- IMO/IMDG International Maritime Transport Shipping Name: Not Regulated
- ADN Europe Transport of Dangerous Goods by Road/Inland Waterway Shipping Name: Not Regulated
- IATA International Air Transport Association Shipping Name: Not Regulated
- ADR Europe Transport of Dangerous Goods by Road/Inland Waterway Shipping Name: Not Regulated
- RID Europe Transport of Dangerous Goods by Railways Shipping Name: Not Regulated

Section 15 – Regulatory Information

SARA Hazard Classifications	≻	None
Risk & Safety Phrases	≻	None

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Boron Nitride	100463-11-5	Yes	No	Yes	No	Yes

Canada

Europe

United States

Section 16 – Other Information

HMIS Health Hazard:	1
HMIS Fire Hazard:	1
HMIS Reactivity:	0
HMIS Personal Protection:	x

Last Revision Date Preparation Date Disclaimer/Statement of Liability

- ▶ 07/16/13
- ▶ 07/16/13
- The information contained herein is believed to be accurate. It is not intended to constitute performance information concerning the product. No Express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

Key to abbreviations

NDA = No Data Available

End of MSDS