

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

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### SECTION 1. IDENTIFICATION

#### Product identifier

Product name : Blue Sparks

Product number : KQ-204

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

Recommended use : Cosmetic raw material

#### 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

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Other hazards

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous ingredients

Chemical name	Concentration (% w/w)	CAS-No.
titanium(IV) oxide	>= 20 - < 30	13463-67-7
silicon dioxide	>= 1 - < 5	7631-86-9

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

---

### SECTION 4. FIRST AID MEASURES

- |   |   |  |
|---|---|--|
| If inhaled  | : | Fresh air.   |
| In case of skin contact                                     | : | Take off immediately all contaminated clothing. Rinse skin with water/ shower.   |
| In case of eye contact                                      | : | Rinse out with plenty of water.<br>Remove contact lenses.                        |
| If swallowed  | : | Make victim drink water (two glasses at most). Consult doctor if feeling unwell. |
| Most important symptoms and effects, both acute and delayed | : | We have no description of any toxic symptoms.                                    |
| Notes to physician  | : | No information available.  |

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### SECTION 5. FIRE-FIGHTING MEASURES

- |  |   |   |
|--|---|---|
| Suitable extinguishing media                   | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media                 | : | For this substance/mixture no limitations of extinguishing agents are given.                            |
| Specific hazards during fire fighting          | : | Not combustible.<br><br>Ambient fire may liberate hazardous vapors.                                     |
| Further information                            | : | Suppress (knock down) gases/vapors/mists with a water spray jet.  |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus.  |

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |  |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Advice for non-emergency personnel:<br>Avoid inhalation of dusts.<br>Evacuate the danger area, observe emergency procedures, consult an expert.<br>Advice for emergency responders:<br>Protective equipment see section 8. |
|---|---|--|

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

Indications about waste treatment see section 13.

Environmental precautions : No special precautionary measures necessary.

Methods and materials for containment and cleaning up : Observe possible material restrictions (see sections 7 and 10).  
Take up dry. Dispose of properly. Clean up affected area.  
Avoid generation of dusts.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling : Observe label precautions.

#### Conditions for safe storage, including any incompatibilities

Storage conditions : Tightly closed.  
Dry.

Risks from decomposition products: see section 10

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
General threshold limit value for dust	42945	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-3
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
titanium(IV) oxide	13463-67-7	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total dust)	10 mg/m <sup>3</sup>	OSHA P0
		TWA	10 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH
silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic	OSHA Z-3

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

			foot (Silica)	
		TWA (Dust)	80 mg/m <sup>3</sup> / %SiO <sub>2</sub> (Silica)	OSHA Z-3
		TWA	6 mg/m <sup>3</sup> (Silica)	NIOSH REL

**Engineering measures** : Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.  
See section 7.

### Personal protective equipment

Respiratory protection : required when dusts are generated.

Filter type : NIOSH-certified respirator with P95 particulate filter

Hand protection

Additional Protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.

Eye protection : Safety glasses

Hygiene measures : Change contaminated clothing. Wash hands after working with substance.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	powder
Form	solid
Color	light yellow
Odor	odorless
Odor Threshold	Not applicable
pH	8.0 - 11.0 at 100 g/l 68 °F (20 °C) (slurry)
Melting point	No information available.

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

---

Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapor pressure	No information available.
Relative vapor density	No information available.
Density	2.6 - 2.8 g/cm <sup>3</sup> at 68 °F (20 °C)
Relative density	No information available.
Water solubility	at 68 °F (20 °C) practically insoluble
Partition coefficient: n- octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Bulk density	250 - 310 kg/m <sup>3</sup>
Particle size	20.0 - 200 µm Particle size  75.0 - 95.0 µm Mean particle size

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## SECTION 10. STABILITY AND REACTIVITY

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

---

Reactivity	: See below
Chemical stability	: The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	: no information available
Conditions to avoid	: no information available
Incompatible materials	: no information available
Hazardous decomposition products	: in the event of fire: See section 5.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Product

#### Carcinogenicity

IARC	Group 2B: Possibly carcinogenic to humans titanium(IV) oxide                      13463-67-7
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### *Likely route of exposure*

Inhalation, Eye contact, Skin contact, Ingestion

#### Experience with human exposure

Other Relevant Toxicity Information:

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

Handle in accordance with good industrial hygiene and safety practice.

#### Components

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

---

### *titanium(IV) oxide (13463-67-7):*

*Acute oral toxicity*  
LD50 Rat: > 10,000 mg/kg (External MSDS)

*Skin irritation*  
Rabbit  
Result: No skin irritation  
(IUCLID)

*Eye irritation*  
Rabbit  
Result: No eye irritation  
(IUCLID)

*Sensitization*  
Local lymph node assay (LLNA) Mouse  
Result: negative  
Method: OECD Test Guideline 429  
(ECHA)

*Germ cell mutagenicity*  
*Genotoxicity in vitro*  
Chromosome aberration test in vitro  
Chinese hamster ovary cells  
Result: negative  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
(ECHA)

### *silicon dioxide (7631-86-9):*

*Acute oral toxicity*  
LD50 Rat: > 5,000 mg/kg  
OECD Test Guideline 401(ECHA)

*Acute inhalation toxicity*  
LC50 Rat: > 0.14 mg/l; 4 h ; dust/mist (highest concentration to be prepared) (ECHA)  
OECD Test Guideline 403

*Acute dermal toxicity*  
LD50 Rabbit: > 5,000 mg/kg (IUCLID)

*Skin irritation*  
Rabbit  
Result: No skin irritation  
OECD Test Guideline 404  
(ECHA)

*Eye irritation*  
Rabbit  
Result: No eye irritation  
OECD Test Guideline 405  
(IUCLID)

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

### *Sensitization*

Sensitization test: Guinea pig  
Result: negative  
(IUCLID)

Result: Did not cause sensitization on laboratory animals.

### *Repeated dose toxicity*

Rat  
male and female  
Oral  
13 Weeks  
daily  
NOAEL: 4,000 mg/kg  
OECD Test Guideline 408  
(ECHA)

Rat  
male and female  
Inhalation  
13 Weeks  
daily  
OECD Test Guideline 413  
(ECHA)

### *Germ cell mutagenicity*

*Genotoxicity in vivo*  
Rat  
Result: negative  
(ECHA)

### *Genotoxicity in vitro*

Ames test  
Salmonella typhimurium  
Result: negative  
(IUCLID)

Mutagenicity (mammal cell test): chromosome aberration.

Result: negative  
(IUCLID)

### *CMR effects*

Carcinogenicity:  
Animal testing did not show any carcinogenic effects.

Mutagenicity:  
Animal testing did not show any mutagenic effects.

Teratogenicity:  
Did not show mutagenic or teratogenic effects in animal experiments. Reproductive toxicity:

No toxicity to reproduction

STOT-single exposure

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity Product



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

### Persistence and degradability

No information available.

### Bioaccumulative potential

No information available.

### Mobility in soil

No information available.

### *Additional ecological information*

No ecological problems are to be expected when the product is handled and used with due care and attention.

### Components

#### *titanium(IV) oxide (13463-67-7):*

##### *Toxicity to fish*

LC0 Leuciscus idus (Golden orfe): > 1,000 mg/l(External MSDS)

##### *Toxicity to bacteria*

EC0 Pseudomonas fluorescens: > 5,000 mg/l(External MSDS)

##### *Biodegradability*

(ECHA)

Not readily biodegradable.

#### *silicon dioxide (7631-86-9):*

##### *Toxicity to fish*

static test LC50 Danio rerio (zebra fish): 10,000 mg/l; 96 h  
OECD Test Guideline 203 (ECHA)

##### *Toxicity to daphnia and other aquatic invertebrates*

static test EC50 Daphnia magna (Water flea): > 1,000 mg/l; 24 h  
OECD Test Guideline 202 (ECHA)

##### *Toxicity to algae*

IC50 Pseudokirchneriella subcapitata (green algae): 440 mg/l; 72 h (IUCLID)

NOEC Pseudokirchneriella subcapitata (green algae): 60 mg/l; 72 h (IUCLID)

##### *Toxicity to fish (Chronic toxicity)*

NOEC Fish: 86.03 mg/l; 30 d

US-EPA (ECHA)

##### *Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)*

NOEC Daphnia sp. (Water flea): 34.2 mg/l; 30 d  
(ECHA)

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

### *Biodegradability*

The methods for determining biodegradability are not applicable to inorganic substances.

### *Partition coefficient: n-octanol/water*

log Pow: < 0.5  
(ECHA) Bioaccumulation is not expected.

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## SECTION 13. DISPOSAL CONSIDERATIONS

Product Waste : Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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## SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

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## SECTION 15. REGULATORY INFORMATION

### **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

#### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### US State Regulations

#### Massachusetts Right To Know

titanium(IV) oxide 13463-67-7

silicon dioxide 7631-86-9

#### Pennsylvania Right To Know

titanium(IV) oxide 13463-67-7

silicon dioxide 7631-86-9

#### New Jersey Right To Know

titanium(IV) oxide 13463-67-7

#### California Prop. 65

WARNING: This product can expose you to one or more chemicals which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
titanium(IV) oxide 13463-67-7

### The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

TSCA : This product is regulated under the Food, Drug, and Cosmetic Act and is exempt from TSCA.

## SECTION 16. OTHER INFORMATION

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not

# SAFETY DATA SHEET



## Blue Sparks

Version  
1.7

Revision Date:  
11.12.2019

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to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.