

Safety Data Sheet

Revision Date: 13.01.2020

SECTION 1. IDENTIFICATION

Product Name Green Sparks

Product Number KQ-201

Recommended use of the chemical and restrictions on use

Recommended use : Cosmetic raw material

Details of the supplier of the safety data sheet

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	Concentration (% w/w)	CAS-No.
titanium(IV) oxide	>= 30 - < 50	13463-67-7
silicon dioxide	>= 1 - < 5	7631-86-9

SECTION 4. FIRST AID MEASURES

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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. 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.

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. 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8. 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.
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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 ³	OSHA Z-3
		TWA (respirable fraction)	5 mg/m ³	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 ³	OSHA Z-1
		TWA (Total dust)	10 mg/m ³	OSHA P0
		TWA	10 mg/m ³ (Titanium dioxide)	ACGIH
silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m ³ / %SiO ₂ (Silica)	OSHA Z-3
		TWA	6 mg/m ³ (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

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	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	white
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.
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	2.7 - 2.9 g/cm ³ at 68 °F (20 °C)
Relative density	No information available.

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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	370 - 450 kg/m ³
Particle size	20.0 - 200.0 µm Particle size

SECTION 10. STABILITY AND REACTIVITY

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.

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.

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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

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)

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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)

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)

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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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product

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.

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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)

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.

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.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

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.



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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).

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
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California Prop. 65

titanium(IV) oxide	13463-67-7	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
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The ingredients of this product are reported in the following inventories:

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

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DSL : This product or its components are listed on or compliant with the DSL.

SECTION 16. OTHER INFORMATION

The information provided in this 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 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.