

# SAFETY DATA SHEET



## Bronze Fine

Version  
1.5

Revision Date:  
13.01.2020

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### SECTION 1. IDENTIFICATION

**Product identifier**

: Bronze Fine

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

Recommended use : Cosmetic raw material  
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.
mica (muscovite)	>= 50 - < 70	12001-26-2
Diiron trioxide	>= 30 - < 50	1309-37-1

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### SECTION 4. FIRST AID MEASURES

# SAFETY DATA SHEET



## Bronze Fine

Version  
1.5

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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.

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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.  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: 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.

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### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling	:	Observe label precautions.
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# SAFETY DATA SHEET



## Bronze Fine

Version  
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Revision Date:  
13.01.2020

### 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
mica (muscovite)	12001-26-2	TWA (Respirable particulate matter)	3 mg/m <sup>3</sup>	ACGIH
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	3 mg/m <sup>3</sup>	NIOSH REL
		TWA (respirable dust fraction)	3 mg/m <sup>3</sup>	OSHA P0
Diiron trioxide	1309-37-1	TWA (Respirable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
		TWA (dust and fume)	5 mg/m <sup>3</sup> (Iron)	NIOSH REL
		TWA (Fumes)	10 mg/m <sup>3</sup>	OSHA Z-1
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1

# SAFETY DATA SHEET



## Bronze Fine

Version  
1.5

Revision Date:  
13.01.2020

		TWA (Fumes)	10 mg/m <sup>3</sup>	OSHA P0
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**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.

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	brown
Odor	odorless
Odor Threshold	Not applicable
pH	3.0 - 7.0 at 100 g/l 68 °F (20 °C) (slurry)
Melting point	No information available.
Boiling point/boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	Not applicable

# SAFETY DATA SHEET



## Bronze Fine

Version  
1.5

Revision Date:  
13.01.2020

---

Upper explosion limit	Not applicable
Vapor pressure	Not applicable
Relative vapor density	Not applicable
Density	3.2 - 3.4 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	Not applicable
Autoignition temperature	Not applicable
Decomposition temperature	No information available.
Viscosity, dynamic	Not applicable
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Bulk density	300 - 340 kg/m <sup>3</sup>
Particle size	5.0 - 25.0 µm Particle size  7.0 - 14.0 µm Mean particle size

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### 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	: in the event of fire: See section 5.

# SAFETY DATA SHEET



## Bronze Fine

Version  
1.5

Revision Date:  
13.01.2020

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products

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

##### Product

Carcinogenicity

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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:

The results of animal experiments using pigments of this type indicate no toxicologically relevant properties. Since the substance is poorly absorbed, no hazardous properties are to be anticipated. Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions. The individual test results were as follows: skin tolerance (rabbit): no irritant effect; eye irritation test (rabbit): no irritant effect; sensitization test (guinea pig): no sensitizing potential. LD<sub>50</sub>(oral, rat): not determinable; all animals still alive after 15,000 mg/kg.

Subchronic toxicity (rat): no appreciable findings up to 50 000 ppm.

Chronic toxicity (rat): 5 % of the product added to the feed for a period of 2.5 years did not show any toxicological changes or carcinogenic effects in animals.

LC<sub>50</sub> (inhalational, rat): male animals: between 4.6 and 14.9 mg/l air; female animals: > 14.9 mg/l air.

The product did not show any genotoxic effects in the micronucleus test carried out in rats in concentrations of up to 2000 mg/kg (limit test).

Handle in accordance with good industrial hygiene and safety practice.

#### Components

*mica (muscovite) (12001-26-2):*

No information available.

# SAFETY DATA SHEET



## Bronze Fine

Version  
1.5

Revision Date:  
13.01.2020

---

### *Diiron trioxide (1309-37-1):*

#### *Acute oral toxicity*

LD50 Rat: > 5,000 mg/kg (ECHA)

#### *Acute inhalation toxicity*

LC50 Rat: 5 mg/l; 4 h ; aerosol (ECHA)

OECD Test Guideline 403

#### *Skin irritation*

Rabbit

Result: No skin irritation

OECD Test Guideline 404

(ECHA)

#### *Eye irritation*

Rabbit

Result: No eye irritation

OECD Test Guideline 405

(ECHA)

#### *Sensitization*

Maurer optimisation test Guinea pig

Result: Not a skin sensitizer.

(ECHA)

#### *Germ cell mutagenicity*

##### *Genotoxicity in vivo*

Genotoxicity in vivo

Rat

Result: negative

(ECHA)

#### *Genotoxicity in vitro*

Ames test

Result: negative

Metabolic activation: with and without metabolic activation

(ECHA)

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Product**

### **Persistence and degradability**

No information available.

### **Bioaccumulative potential**

*Partition coefficient: n-octanol/water*

Not applicable

### **Mobility in soil**

No information available.

# SAFETY DATA SHEET



## Bronze Fine

Version  
1.5

Revision Date:  
13.01.2020

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### *Additional ecological information*

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

### **Components**

*mica (muscovite) (12001-26-2):*

No information available.

*Diiron trioxide (1309-37-1):*

#### *Toxicity to fish*

static test Danio rerio (zebra fish); 96 h

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

static test EC50 Daphnia magna (Water flea): > 100 mg/l; 48 h  
OECD Test Guideline 202 (ECHA)

(above the solubility limit in the test medium)

#### *Toxicity to bacteria*

static test EC50 activated sludge: > 10,000 mg/l; 3 h (ECHA)

(above the solubility limit in the test medium)

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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.



# SAFETY DATA SHEET



## Bronze Fine

Version  
1.5

Revision Date:  
13.01.2020

### 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

mica (muscovite)	12001-26-2
Diiron trioxide	1309-37-1

#### Pennsylvania Right To Know

mica (muscovite)	12001-26-2
Diiron trioxide	1309-37-1

#### New Jersey Right To Know

mica (muscovite)	12001-26-2
Diiron trioxide	1309-37-1

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

# SAFETY DATA SHEET



## Bronze Fine

Version  
1.5

Revision Date:  
13.01.2020

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the DSL.

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### 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.