

Product- and Quality Dossier

COSMI 353 Pure Gold

Foreword

The data in this dossier are specific and refer only to the respective product of Fujian Kuncai Material Technology Co. Ltd. ("Kuncai") and may not be used with other products, even if such products are chemical identical.

The herein provided information on regulatory and chemical data, as well as on safety evaluations, are made to the best of our knowledge. We do not assume any liability for the relevance, accuracy or completeness of the information provided nor do we assume any warranty.

Current laws, regulations and any applicable intellectual property rights of third parties, including patents and trademarks, are to be observed and respected in all cases by our customers. Our information and advice do not relieve our customers of their own responsibility for determining the suitability of our products for the envisaged purpose or the necessity of obtaining any applicable third party intellectual property licenses.

For further information please contact your Kuncai Sales Manager.

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General information

- Product trade name COSMI 353
- Product manufacturer Fujian Kuncai Material Technology Co. Ltd.

Compositions

- Mica 58 - 66 %
- Titanium Dioxide 22 - 26 %
- Tin Oxide < 1 %
- Iron (III) Oxide 12 - 16 %

Chemical description of Mica

- Chemical name Natural Mica
- Molecular formula $KAl_2(AlSi_3O_{10})(OH)_2$
- Synonyms Mica
- CAS No. 12001-26-2
- INCI Name (CI No.) Mica (CI No.: 77019)

Chemical description of Titanium Dioxide

- Chemical name Titanium Dioxide
- Molecular formula TiO_2
- Synonyms Titanium Oxide
- CAS No. 13463-67-7
- INCI Name (CI No.) Titanium Dioxide (in EU: CI No. 77891)

Chemical description of Tin Oxide

- Chemical name Tin Oxide
- Molecular formula SnO_2
- Synonyms Stannic Oxide
- CAS No. 18282-10-5
- INCI Name (CI No.) Tin Oxide (CI No.: 77861)

Chemical description of Iron (III) Oxide

- Chemical name Iron (III) Oxide
- Molecular formula Fe_2O_3
- Synonyms Ferric Oxide
- CAS No. 1309-37-1
- INCI Name (CI No.) Iron (III) Oxide (CI No.: 77491)

Eco labelling / ISO 16128

COSMOS approved / NOI 1.0

Fujian Kuncai Material Technology Co. Ltd.
Date: 2021-12-15

Signature:


Director of Quality Assurance


Origin /BSE / GMO Certificate

- Product trade name	COSMI 353
- Product manufacturer	Fujian Kuncai Material Technology Co. Ltd. Haicheng Road, Fuqing, Fujian China, 350314
- Supplier	Fujian Kuncai Material Technology Co. Ltd.

EU INCI	Origin ¹	BSE/TSE ²	GMO ³
Mica, CI. No.: 77019	Mineral/Natural identical	Not Applicable	Not Applicable
Titanium Dioxide, CI No.: 77891	Mineral/Natural identical	Not Applicable	Not Applicable
Tin Oxide, CI No.: 77861	Mineral/Natural identical	Not Applicable	Not Applicable
Iron (III) Oxide, CI 77491	Mineral/Natural Identical	Not Applicable	Not Applicable

¹ Animal or plant or synthetic or mineral / natural identical or biotechnological / microbiological

² Not applicable or not prohibited ingredients according Annex II, No. 419, Regulation (EC) 1223/2009.

³ Not applicable or no GMO (neither produced from, nor containing any genetically modified plant / micro-organism) or GMO cannot be excluded.

Vegan Statement

We hereby declare that all COSMI pearlescent pigments, made by Kuncai, do not contain any animal derived ingredients, fats or oils (including porcine derived ingredients).

This applies to the finished product as well as to the starting materials and products, used within the manufacturing process.

The finished products do not come into direct contact with animal derived ingredients at any stage of the manufacturing process.

Fujian Kuncai Material Technology Co. Ltd.
Date: 2021-12-15



Signature:



Director of Quality Assurance

Proposition 65 Certificate

- Product trade name COSMI 353
- Manufacturer Fujian Kuncai Material Technology Co. Ltd.

This is to certify that the above mentioned product is a mixture containing Titanium Dioxide.

Titanium Dioxide is listed on the California Proposition 65 List as a chemical, known to the State of California, to cause cancer in its airborne form, i.e. unbound particles or respirable size. This listing in Proposition 65 does not cover Titanium Dioxide, when it remains bound in a product matrix.

To the best of our knowledge, the above mentioned product, does not contain any other ingredients known to the State of California to cause cancer or reproductive toxicity, as listed under Proposition 65, Safe Drinking Water and Toxic Enforcement Act.

Heavy metals as traces – see specification, are not concerned by the restrictions of the Proposition 65.

Fujian Kuncai Material Technology Co. Ltd
Date: 2021-12-15



Signature:



Director of Quality Assurance

Compliance with Kosher/Halal

- Product trade name COSMI 353
- Manufacturer Fujian Kuncai Material Technology Co. Ltd.

We herewith confirm, that the above-mentioned product, to the best of our knowledge, does not contain any:

- Animal derived ingredients, fats or oils (including porcine derived ingredients);
- Human derived ingredients;
- Plants or genetically modified organisms (GMO);
- Ethyl alcohol (ethanol).

This applies to the finished product as well as to the starting materials and products, used within the manufacturing process.

The finished product does not come into direct contact with animal derived ingredients at any stage of the manufacturing process.

Fujian Kuncai Material Technology Co. Ltd
Date: 2021-12-15



Signature:

Director of Quality Assurance

Regulatory information

Chemical inventories

This is to certify that the components of COSMI 353 are listed in the following chemical inventories:

Europe	(EINECS / ELINCS)
USA	(TSCA)
Australia	(AICS)
Canada	(DSL)
China	(IECSC)
Philippines	(PICCS)
Korea	(KECI)
New Zealand	(NZIoC)
Taiwan	(NCSR)

Fujian Kuncai Material Technology Co., Ltd.
Date: 2021-12-15



Signature:



Director of Quality Assurance

Regulatory Status

EU

Mica

Allowed. No direct regulation to the European Cosmetics. Regulation (EC) No.: 1223/2009. No limitations exist. Mica can be used for cosmetic formulation under the responsibility of the cosmetic manufacturer.

Titanium Dioxide

According to the European Cosmetics Regulation (EC) No. 1223/2009, Titanium Dioxide is allowed as a colorant in all cosmetic products (Annex IV, No. 143, CI No.: 77891) as long as it does not contain 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$.

Testing showed our pearlescent pigments do not contain 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ of Titanium Dioxide.

Titanium Dioxide complies with the specification E 171 (Titanium Dioxide) of Directive EU 231/2012 laying down specific purity criteria concerning colors for use in foodstuffs.

Tin Oxide

Allowed. No direct regulations to the European Cosmetics Regulation (EC) No. 1223/2009. No limitations exist.

Iron Oxide

According to the European Cosmetics Regulation (EC) No. 123/2009, Iron Oxide is within the Specification (Annex IV, CI No.: 77491, E172 and Directive EU 231/2012).

USA

Mica

According to the 21 Code of Federal Regulations (CFR), Part 73, Sec. 73.2496, Mica is safe for using in coloring cosmetics generally, including cosmetics applied to the area of the eye, in amounts consistent with good manufacturing practice.

Titanium Dioxide

According to the 21 Code of Federal Regulations (CFR), Part 73, Sec. 73.2575, the colorant additive Titanium Dioxide may be safely used in cosmetics generally, including cosmetics applied to the area of the eye, in amounts consistent with good manufacturing practice.

Tin Oxide

According to the 21 Code of Federal Regulations (CFR) no limitations exists.

Iron Oxide

According to the 21 Code of Federal Regulations (CFR), Part 73, Sec. 73.2250, Iron Oxide, conform to the related Specification, then they are safe for use in cosmetics generally, including cosmetics applied to the area of the eye, in amounts consistent with good manufacturing practice.

Mica based Pearlescent Pigment

According to the 21 Code of Federal Regulations (CFR), Part 73, Sec. 73.1350, Mica based Pearlescent Pigment with the combination of: Titanium Dioxide on Mica, Iron Oxide on Mica, Titanium Dioxide and Iron Oxide on Mica; these are safe for cosmetics if it is conform to the requirements.

Japan

The ingredients or pearlescent pigments are not specifically regulated according to the New Cosmetic Standards, enforced on April 1st 2001, by the Ministry of Health and Welfare (MHW).

COSMI 353 can be used for cosmetic formulations under the responsibility of the cosmetic manufacturer.

China

Mica

Mica is not regulated for uses in cosmetics under the Technical Safety Standards for Cosmetics (2015).

Titanium Dioxide

Titanium Dioxide is listed in the Technical Safety Standards for Cosmetics (2015) in the List of Colorants under CI No.: 77891 and is permitted in to be used in cosmetic formulations.

Tin Oxide

Tin Oxide is considered an existing cosmetic ingredient in China and is permitted to be used in cosmetic formulations.

Iron Oxide

Iron Oxide is listed in the Technical Safety Standards for Cosmetics (2015) in the List of Colorants under CI No.: 77491 and is permitted in cosmetic formulations without restrictions.

Fujian Kuncai Material Technology Co., Ltd.
Date: 2021-12-15



Signature:



Director of Quality Assurance

REACH / SVHC Certificate

REACH DECLARATION

Related to COSMI 353

Regarding the REACH Registration of COSMI 353, we declare the following:

At this stage we confirm that the substances, which are contained in the above named product, have been registered as follows:

- **Mica** CAS No.: 12001-26-2 / EINECS No.: 310-127-6.
This substance is exempted from REACH.
- **Titanium Dioxide (TiO₂)** CAS No.: 13463-67-7 / EINECS No.: 236-675-5.
REACH-Registration No.: 01-2119489379-17-0024.
- **Tin Oxide (SnO₂)** CAS No.: 18282-10-5 / EINECS No.: 242-159-0.
REACH-Registration No.: 01-2119946062-44-0021.
- **Iron (III) Oxide (Fe₂O₃)** CAS No.: 1309-37-1 / EINECS No.: 215-168-2.
REACH-Registration No.: 01-2119457614-35-0175.

Substances of very high concern (SVHC) are substances, which are proposed to be identified as a CMR substance (Cat. 1 or 2, in accordance with Directive 67/648/EEC or Cat. 1A or 1B, in accordance with Regulation (EC) No. 1272/2008, a PBT or a vPvB substance or a substance with probable serious effects, which gives rise to an equivalent level of concern as those above (Articles 57 and 59 (10), REACH). Their list can be seen on following link:

<https://echa.europa.eu/candidate-list-table>

We do not use any of those substances as intentionally added ingredients for the product, mentioned above. Any SVHC substance would otherwise be mentioned as an entry in Chapter 3 of the according most current SDS of this product.

Animal testing Certificate

Animal testing declaration

- Product trade name COSMI 353
- Product manufacturer Fujian Kuncai Material Technology Co. Ltd.
Haicheng Road, Fuqing, Fujian China, 350314

Kuncai herewith declares for this product the compliance with the EU Cosmetics Regulation concerning animal testing defined in:

- Article 18 Cosmetics Regulation (EC) 1223/2009
(former Article 4A – Cosmetics Directive 76/768/EEC)

Prohibitions on animal testing in order to meet the requirements of the Animal Testing and Marketing Ban.

- Article 11 (2) E Cosmetics Regulation (EC) 1223/2009
(former Article 4A – Cosmetics Directive 76/768/EEC)

No animal tests have been performed by or on behalf of Kuncai with this product.

Fujian Kuncai Material Technology Co. Ltd.
Date: 2021-12-15



Signature:

Director of Quality Assurance

Nano-material Certificate

Implementation of the provisions of the Cosmetic Regulation (EC) 1223/2009 will impose strict conditions and timelines for the notification and the assessment of cosmetic products containing Nano-materials.

Cosmetic products containing substances classified as Nano-materials according to the definition in Chapter 1, Article 2 (K) of Regulation (EC) 1223/2009, will require pre-market notification, according to Article 13, taking into accounts points 3A to 3F of Article 16 of Regulation (EC) 1223/2009 (<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do>).

For the following product:

- Product trade name COSMI 353
- Product manufacturer Fujian Kuncai Material Technology Co. Ltd.
Haicheng Road, Fuqing, Fujian China, 350314
- Supplier Fujian Kuncai Material Technology Co. Ltd.

We hereby confirm, that the product mentioned above is not a / does not contain Nano-materials according to the definition in Chapter 1, Article 2, 1 (K) of Regulation (EC) 1223/2009 and according to the recommendations of the European Commission (2011/696/EU).

Fujian Kuncai Material Technology Co. Ltd.
Date: 2021-12-15



Signature:



Director of Quality Assurance

Analytical Data

Specification

FUJIAN KUNCAI MATERIAL TECHNOLOGY CO. LTD.

Product name: COSMI 353 Pure Gold

Appearance: A reddish gold color, free flowing powder with a sparkle luster.

Ingredients and composition

CHEMICAL NAME	%	CAS NO.	CI NO.
Mica	58 - 66	12001-26-2	77019
Titanium Oxide (TiO ₂)	22 - 26	13463-67-7	77891
Tin Oxide (SnO ₂)	< 1	18282-10-5	77861
Iron (III) Oxide (Fe ₂ O ₃)	12 - 16	1309-37-1	77491

Heavy metals:

Lead	(Pb)	< 2	ppm
Antimony	(Sb)	< 1	ppm
Arsenic	(As)	< 1	ppm
Barium	(Ba)	< 10	ppm
Cadmium	(Cd)	< 1	ppm
Chromium	(Cr)	< 5	ppm
Mercury	(Hg)	< 1	ppm
Copper	(Cu)	< 15	ppm
Nickel	(Ni)	< 5	ppm
Zinc	(Zn)	< 50	ppm

Microbial purity

Total viable aerobic count	< 100 CFU/gr.
E.Coli	Absent in 1 gr.
Pseudomonas aeruginosa	Absent in 1 gr.
Staphylococcus aureus	Absent in 1 gr.
Salmonella species	Absent in 10 gr.
Gram negative bacteria	Absent in 1 gr.
Candida albicans	Absent in 1 gr.

Physical properties

Particle size distribution:	80 % within the range of 20 – 100 µm	
D50:	47.5 ± 2.5	(by Malvern Mastersizer 3000)
Colorimetric evaluation:	conform	Powder color, visual
pH (10 % aqueous suspension):	7.0 – 11.0	ISO 787-9
Loss on drying (105°C):	≤ 0,5 % max.	GB 5211.3-85
Oil absorption:	60 – 80 gr. oil/ 100 gr. powder	GB 5211.15-88
Density:	2,8 – 3,4 gr./ cm ³ (water = 1)	KC Method

Shelf life

Sealed in a constant temperature and humidity and dry environment, in theory, can be preserved for 8 years.

Storage conditions

Store tightly closed. Dry.

Microbial Purity

- Product trade name COSMI 353
- Product manufacturer Fujian Kuncai Material Technology Co. Ltd.
Haicheng Road, Fuqing, Fujian China, 350314

We herewith confirm that the microbiological purity of this product is as follows:

- Microbiological purity (total viable aerobic count) < 100 CFU/gr. USP, Ph EUR
- Gram negative bacteria absent in 1 gr.
- E.coli absent in 1 gr.
- Pseudomonas aeruginosa absent in 1 gr.
- Staphylococcus aureus absent in 10 gr.
- Salmonella species absent in 1 gr.
- Candida albicans absent in 1 gr.

Fujian Kuncai Material Technology Co. Ltd.
Date: 2021-12-15



Signature:



Director of Quality Assurance

Residual solvents/organic volatile impurities

- Product trade name COSMI 353
- Product manufacturer Fujian Kuncai Material Technology Co. Ltd.
Haicheng Road, Fuqing, Fujian China, 350314

In the following, we declare, to the best of our knowledge, any substance(s) classified as “residual solvent(s)”, according to ICH Q3C, that is/are likely to be present* in the manufacture and/or purification of this product.

- None of the solvents classified according to ICH Q3C as a “residual solvents” are likely to be present.
- One or more of the solvents classified according to ICH Q3C as “residual solvents” is/are likely to be present*. The compliance of the concentration limit(s) of such solvent(s) in the above-mentioned product, in accordance with the guideline ICH Q3C is confirmed.

*Likely to be present refers to the solvent used in the final manufacturing step and to solvents that are used in earlier manufacturing steps and not removed consistently by a validated process.

Fujian Kuncai Material Technology Co. Ltd
Date: 2021-12-15



Signature:



Director of Quality Assurance

Impurities / By-products

- Product trade name COSMI 353
- Product manufacturer Fujian Kuncai Material Technology Co. Ltd.
Haicheng Road, Fuqing, Fujian China, 350314

By-products

Based on the manufacturing process specific by-products are not expected to be found in the product.

Other impurities

The presence of:

- Antioxidants
- Bleaching agents
- Pesticides
- Chelating agents
- Glycol ethers
- Cyclotetrasiloxane D4
- Cyclotetrasiloxane D5
- Nitrosamines
- Phthalates
- 1,4 Dioxane
- Ethylene oxide
- Phenol
- Preservatives
- Monomers
- Solvents

can be excluded based on the manufacturing process.

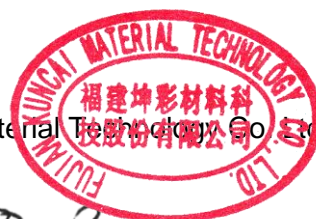
We do not perform any analytical testing on these impurities in the product.

Fujian Kuncai Material Technology Co., Ltd.
Date: 2021-12-15

Signature:



Director of Quality Assurance



Heavy metals values – semi digestion - HCl extraction

The evaluation of heavy metals via diluted hydrochloric acid extraction is the obligatory method according to the FDA-Regulation.

Heavy metals

Arsenic (As)	< 1 ppm
Cadmium (Cd)	< 1 ppm
Mercury (Hg)	< 1 ppm
Chromium (Cr)	< 5 ppm
Lead (Pb)	< 2 ppm
Barium (Ba)	< 10 ppm
Antimony (Sb)	< 1 ppm
Copper (Cu)	< 15 ppm
Nickel (Ni)	< 5 ppm
Zinc (Zn)	< 50 ppm

Fujian Kuncai Material Technology Co., Ltd
Date: 2021-12-15



Signature:



Director of Quality Assurance

SAFETY INFORMATION

Safety Data Sheet

FUJIAN KUNCAI MATERIAL TECHNOLOGY CO. LTD.

Tel.: +86 591 – 85588067

Fax: +86 591 – 85572333

Website: www.fjkuncai.comE-Mail: fzkc@fjkuncai.com

Address: Haicheng Road, Yuanhong Investment Zone, Fuqing (Fuzhou), Fujian, China 350314

Revision date: 2021/12/15

Version: 1.1

Section 1: Identification of the substance/mixture and of the company

1.1 Product name: COSMI 353 Pure Gold

Further information obtainable from: Fujian Kuncai Material Technology Co. Ltd.

Address: Haicheng Road, Yuanhong Investment Zone, Fuqing (Fuzhou), Fujian, China 350314

Hotline: 400-2588-868

Tel.: +86 591 – 85588196

Fax.: +86 591 – 85572333

Website: www.fjkuncai.com

E-mail: fzkc@fjkuncai.com

Use: Cosmetic ingredient.

Section 2: Hazards information

2.1 Classification of the substance or mixture:

* **Hazard description:** Not applicable

* **Information concerning particular hazards for human and environment:**

The product is not classified as dangerous according to the Regulation (EC) No. 1272/2008 – Classification system:

The classification is according to the latest edition of the Regulation (EC) No. 1272/2008 and extended by company and literature data.

2.2 Label elements:

Supplemental label information

EUH212: Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

EUH210: Safety data sheet available on request.

2.3 Other hazards: Not available

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids, include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Irritation/corrosion:

Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties. Contact with eyes or skin may cause mechanical irritation.

Chronic toxicity

Potential environmental effects

Aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected. The inhibition of the degradation activity of activated sludge is not anticipated, when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

Section 3: Composition and information on ingredients

Chemical name	% (w/w)	CAS No.	CI No.
Mica	58 -66	12001-26-2	77019
Titanium Oxide (TiO ₂)	22 - 26	13463-67-7	77891
Tin Oxide (SnO ₂)	< 1	18282-10-5	77861
Iron (III) Oxide (Fe ₂ O ₃)	12 - 16	1309-37-1	77491

Section 4: First aid measures
4.1 Description of first aid measures:

* **General advice:** Remove contaminated clothing.

If inhaled: Move person to fresh air. Consult doctor in event of any complaints. If difficulties occur after dust inhalation, remove to fresh air and seek medical attention.

If on skin: Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes: Immediately flush eyes (eyelids open) with water for at least 15 minutes. If discomfort persists, seek medical attention.

If swallowed: If large quantities are ingested, seek medical attention. Not a hazard under normal used conditions. Rinse mouth and drink plenty of water. Never induce vomiting or give anything to eat, if the victim is unconscious or having convulsions.

Information for doctor: The following symptoms may occur: Not available.

Hazards: Not available.

Treatment: Not available.

4.2 Most important symptoms and effects, both acute and delayed: Not available.

4.3 Indication of any immediate medical attention and special treatment needed: Not available.

Section 5: Firefighting measures

5.1 Extinguishing media: Not available.

* **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture: Not available.

* **Protective equipment:** No special measures required.

5.3 Advice for firefighters: Not available.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

6.2 Environmental precautions: Do not allow to enter sewer/surface or ground water.

6.3 Methods and material for containment and cleaning up:

- For small amounts: Pick up with suitable appliance and dispose of;
- For large amounts: Pick up with suitable appliance and dispose of;
- Spills should be contained and placed in suitable containers for disposal.

6.4 Reference to other sections: Not available.

Section 7: Handling and storage

General advice: Breathing must be protected when large quantities are decanted without local exhaust ventilation. Avoid contact with the skin, eyes and clothing. Keep in a cool place. Keep container dry.

7.1 Precautions for safe handling: Avoid dust formation. Closed containers should only be opened in well-ventilated areas.

* **Information about fire- and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities: No special measures required.

* **Requirements to be met by storerooms and receptacles:** No special requirements.

* **Information about storage in one common storage facility:** Not required.

* **Further information about storage conditions:** None.

* **Incompatibilities:** Not available.

7.3 Specific end use(s): Not available.

Section 8: Exposure controls personal protection

8.1 Exposure controls:

* **Personal protective equipment:** Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

* **Eye protection:** Safety glasses with side-shields.

* **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

* **Glove material:** The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

* **Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

* **General safety and hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Due to the coloring properties of the product, closed work clothes should be used, to avoid stains during manipulation. Hands and/or face should be washed before breaks and at the end of each shift. Wash soiled clothing immediately.

* **Primary irritant effect:**

- **On the skin:** No irritant effect.

- **On the eye:** No irritating effect.

* **Sensitization:** No sensitizing effects known.

* **Additional toxicological information:** The product is no subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

* **Toxicokinetics, metabolism and distribution:** Not available.

* **Acute effects (acute toxicity, irritation and abrasiveness):** Quantitative data on the toxicity of this product is not available. Product does not contain any deleterious matter.

* **Repeated dose toxicity:** Prolonged or repeated exposure to dust may cause pulmonary problems.

* **CMR effects (carcinogenic, mutagenic and toxicity of reproduction):** The results of animal experiments using pearl luster pigments of this type indicate no toxicological relevant properties. Since the substance is poorly absorbed, no systemic effects are to be anticipated.

Inhalation of dusts should be avoided as even inert dusts may impair respiratory organ functions. No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

* Form	Powder
* Odor	Odorless
* Color	A reddish gold color, free flowing powder with a sparkle luster.
* Particle size	20 – 100 µm
* Explosion limits	
- Lower	Not available
- Upper	Not available
- Oxidizing properties	Not available
* Viscosity	
- Dynamic	Not available
* pH-value	7.0 – 11.0 (10 % aqueous suspension)
* Boiling/condensation point:	Not available
* Melting/freezing point	Not available
* Specific gravity	Approx. 2.8 ~ 3.4 gr./cm ³ (water = 1)
* Ignition temperature	Not available
* Self-igniting	Product is not self-igniting
* Danger of explosion	Product does not present an explosion hazard
* Solubility	Insoluble in water
* Electric conduction	Non-conduction
* Impurity	< 0,5 %
* Chemical stability	Acid and alkali resistance under the normal temperatures

Section 10: Stability and reactivity

10.1 Reactivity: No decomposition if used according to specifications.

10.2 Chemical stability: Acid and alkali resistance under the normal temperatures.

10.3 Possibility of hazardous reactions: Not available.

10.4 Conditions to avoid: Not available.

10.5 Incompatible materials: Not available.

* **Materials should be avoided:** Not available.

* **Dangerous reactions:** No dangerous reactions known.

10.6 Hazardous decomposition products: Not available.

- * **Hazardous reactions:** No hazardous reactions when stored and handled according to instructions. The product is chemically stable. Hazardous polymerization will not occur.
- * **Decomposition products:** Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.
- * **Thermal decomposition:** No data available.
- * **Corrosion to metals:** No corrosive effects on metal.

Section 11: Toxicological information

Information on toxicological effects:

Acute toxicity:

- * **Oral:** Type of value: LD50.
Species: rat.

* **Value:** > 2,000 mg/kg. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation/corrosion

- * **Skin:** May cause mechanical irritation.
- * **Eye:** May cause mechanical irritation.

Section 12: Ecological information

12.1 Toxicity: No ecological problems are to be expected when this product is handled and used with due care and attention.

12.2 Persistence and degradability: Not available.

12.3 Bio accumulative potential: Not available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPVB assessment: Not available.

12.6 Other adverse effects: Not available.

Additional ecological information:

* **General notes:** Water hazard class 1 (German Regulation) (self-assessment): slightly hazardous for water. Do not allow undiluted product of large quantities of it to reach ground water, water course or sewage system.

* Fish

Acute: Fish/LC50 (96 h): Not determined.
Chronic: No data available.

* Aquatic invertebrates

Acute: Daphnia/LC50 (48 h): Not determined.
Chronic: No data available.

* Aquatic plants

Toxicity to aquatic plants: Algae/EC50 (72 h): Not determined.

* Microorganisms

Toxicity to microorganisms: Bacteria/EC50 (0,5 h): Not determined.

*** Degradability/persistence**

Biological/a-biological degradation

Evaluation: Not readily biodegradable (by OECD-criteria). The colorant is insoluble in water and can thus be separated from water, mechanically in suitable effluent treatment plants.

Section 13. Disposal and considerations

13.1 Waste disposal of substance: *Must be disposed of or incinerated in accordance with local regulations. Dispose of in a licensed facility. Do not discharge into drains/surface waters/groundwater. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.*

13.2 Container disposal: *Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.*

Section 14: Transport information

14.1 Land transport ADR/RID (cross-border)

* **USDOT:** *Not classified as a dangerous good under transport regulations.*

Transport category:

14.2 Maritime transport IMDG

14.2.1 IMDG Class: *Not classified as a dangerous good under transport regulations.*

* **Label:** -

14.2.2 Packaging group: -

* **EMS Number:** -

* **Marine pollutant:** No

14.2.3 Proper shipping name: -

14.3 Air transport ICAO-TI and IATA-DGR

14.3.1 ICAO/IATA Class: *Not classified as a dangerous good under transport regulations.*

14.3.2 UN/ID Number: -

* **Label:** -

14.3.3 Packaging group: -

14.3.4 Proper shipping name: -

* **UN (Model Regulation):** -

14.4 Environmental hazards: *Not available*

14.5 Special precautions hazards: *Not available.*

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

* **Sara**

Section 335 (extremely hazardous substances): *None of the ingredients is listed.*

Section 313 (specific toxic chemical listings): *None of the ingredients is listed.*

* **Proposition 65**

Chemical known to cause cancer: *None of the ingredients is listed.*

Chemical known to cause reproductive toxicity for females: *None of the ingredients is listed.*

Chemical known to cause development toxicity: *None of the ingredients is listed.*

*** Cancerogenicity categories**

EPA (Environmental Protection Agency): None of the ingredients is listed.

NTP (National Toxicology Program): None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.

Labelling according to EU-Guidelines: Observe the general safety regulations when handling chemicals. The product has not been classified and marked in accordance with EU Directives respectively national laws. The product is no subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials. The product has not been classified as dangerous according to Directives 67/548 EEC, 1999/45 EC and Regulation (EC) No.: 1272/2008.

National Regulations

*** Candidate List of Substances of very high concerns (SVHC) according ECHA (18/06/2010):**
None of the ingredients is listed.

*** REACH Regulation, Annex XVII Restriction List:** None of the ingredients is listed.

*** REACH Regulation, Annex XVII Authorization Recommendation List:** None of the ingredients is listed.

Section 16: Other information

The contents and format of this MSDS is in according with Regulations (EC) No. 1272/2008, No. 1907/2006, EU Commission Directive 1999/45 EC and 67/548 EEC.

*** Disclaimer of liability:** The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or method of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

*** Relevant R-phrases:**

- 36/377/38 Irritating to eyes, respiratory system and skin

*** Abbreviations and acronyms:**

- **ADR:** Accord européen relative au transport international des marchandises Dangereuses par

Route (European Agreement concerning the international Transport of Dangerous Goods by Rail).

- **IMDG:** International Maritime Code for Dangerous Goods.

- **IATA:** International Air Transport Association.

- **IATA-DGR:** Dangerous Goods Regulations by the "International Air Transport Association" (IATA).

- **ICAO:** International Civil Aviation Organization.

- **ICAO-TI:** Technical Instructions by the "International Civil Aviation Organization" (ICAO).

- **GHS:** Globally Harmonized System of Classification and Labelling of Chemicals.

- **ACGIH:** American Conference of Governmental Industrial Hygienists.

- **LC50:** Lethal Concentration, 50 %.

- **LD50:** Lethal Dose, 50 %.

- HMIS III Rating :*Health: 1**Flammability: 0**Physical hazard: 0*

HMIS uses a numbering scale ranging from 0 to 4, to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes and uses different criteria. The HMIS system was designed to communicate workplace hazard information to employees, who handle hazardous chemicals.

END OF DATA SHEET

Toxicological Data

See Section 11 of MSDS.

Eco-toxicological Data

See Section 12 of MSDS

Corporate Social Responsibility

CR-Statement

Code of Conduct of Fujian Kuncai Material Technology Co. Ltd.

As a responsible global corporate citizen, Fujian Kuncai Material Technology Co. Ltd. (hereinafter "Kuncai") insists on using its own resource and strength to undertake the sustainable responsibility and obligation of the corporation and society consistently, and we act in accordance to our Code of Conduct.

1 General Principles, Laws and Statutes

Kuncai commits to upholding its corporate social responsibility in all business dealings.

In all its business activities and decisions, Kuncai commits to respecting the laws in effect and any other applicable provisions in the countries where it is active. Business partners are to be treated fairly. Contracts are to be upheld, whereby changes in the framework of the business environment are to be taken into consideration.

2 Corruption/Anti-Trust Law/Forced Labor/Child Labor

A) Corruption

In dealing with business partners (customers, suppliers) and state institutions, the interests of the company and the private interests of employees on both sides are to be kept strictly separate. Actions and (purchasing) decisions are to proceed independent of considerations, which do not concern the business at hand and which involves personal interest.

Criminal Acts in dealings with public officials

The granting of personal advantages (in particular benefits in kind such payments and loans, including the giving of smaller gifts over a longer period of time) by Kuncai and their employees to public officials (such as civil servants or public employees) with the objective of gaining advantages for the signing/acceding company ore oneself or for third parties, is not permitted.

Criminal acts in business dealings

Personal benefits in kind in exchange for a favored position in business dealings may not be offered, promised, granted or approved. Nor may personal benefits be demanded or accepted in dealings with business partners. Kuncai requires from its employees that they will not allow any such benefits to be promised by them.

The management and employees of Kuncai are not allowed in the course of business dealings to offer, promise, demand, give or accept gifts, payments, invitations or services that are provided with the aim of influencing a business relationship in a prohibited way or with whom there is the risk of jeopardizing the professional independence of the business partner. This generally does not apply to gifts and invitations that fall within the bounds of normal business practice with regards to hospitality, convention and courtesy.

Kuncai can issue a binding policy with regards to the giving and receiving of gifts, invitations to business entertainment and events. This policy can specify exceptions with respect to appropriate gifts of small value and or a symbolic nature, reasonable business meals and reasonable company events, as well as those of business partners (customers, suppliers).

B) Conduct vis-à-vis competitors (Anti-Trust-Law)

Kuncai respects fair competition and adheres to existing laws that uphold and promote competition, in particular prevailing Anti-Trust-Laws as well as laws that regulate competition.

In dealing with competitors, those provisions in particular prohibit collusion and other activities aimed at influencing prices or conditions, dividing up sales territories or customers or using prohibitive means to inhibit free and open competition. Furthermore, these provisions prohibit agreements between customers and suppliers, by which customers are to be enjoined in their freedom to autonomously determine their pricing and miscellaneous conditions, when re-selling (determination of pricing and conditions).

C) Forced labor

Kuncai refuses all forms of forced labor.

D) Child labor

Kuncai respects the regulations of the United Nations, Children's Rights and Business Principle and China Labor Law on human rights and children's rights. In particular, the signing/acceding company commits to complying with the Convention concerning the minimum age for admission to employment (Convention No. 138 of the International Labor Organization) as well as the Convention concerning the prohibition and immediate action for the elimination of the worst forms of child labor (Convention No. 182 of the International Labor Organization).

Child labor means, any children engaged in an employment but they are under the age for completing compulsory education or younger than the minimum age, stipulated by the local law of that country (the higher age should be applied). In China, the minimum age for admission to employment is 16. Kuncai is resolutely against the use of child labor in the whole productions process. Kuncai considers the use of child labor as a criminal behavior. If a national regulation, concerning child labor, provides for stricter measures, the shall have precedence.

3 Principles promoting Social Responsibility

A) Human rights

Kuncai respects and supports compliances of internationally recognized Human Rights organizations.

B) Discrimination

Kuncai commits, within the scope of prevailing laws and statutes, to opposing all forms of discrimination. This applies in particular to unfair treatment on the basis of gender, race, disability, ethnic or cultural origin, religion or world view, age or sexual orientation.

C) Health Protection

Kuncai guarantees protection of workers in the workplace and workplace health protection within the scope of national provisions. Kuncai supports continuous advancement of this process towards improvement of the working environment.

D) Fair Working Conditions

Kuncai respects its employees' right of association within the bounds of prevailing laws and statutes.

E) Environmental Protection

Kuncaï is committed to sustainably upholding the goal of environmental protection to current and future generations. Laws passed for the protection of the environment are to be obeyed. Kuncai supports environmentally-minded actions on the part of its employees.

F) Company Secrets

Kuncaï commits its employees to safeguarding trade and company secrets. It is forbidden to divulge confidential information, as well as confidential documents, to third parties without proper authorization or to provide other forms of access to them, unless proper authorization has been granted or it has to do with public available information.

4 Suppliers

Kuncaï will communicate the basic principles of this Code of Conduct Section to its immediate suppliers, to promote the compliance of the content of the Code of Conduct, Section 2, to the best of its ability among its suppliers and to require them to also adhere to Section 3. Kuncai will recommend to its suppliers to in turn call upon their suppliers to follow the content of our Code of Conduct.

Fujian Kuncai Material Technology Co. Ltd.

2015.12.1

CLF STATEMENT

Statement Kuncai regarding a child labor free supply chain

Fujian Kuncai Material Technology Co. Ltd. (Kuncai), based in Fuzhou China, is one of the main producers of pearlescent pigments in the world and we use both natural mica and synthetic mica in our products. The synthetic mica is manufactured by ourselves according to our own technology, while the natural mica is sourced in Brazil.

A while ago, however, Kuncai began restructuring its sourcing strategy, focusing on natural mica from sources in Brazil. As of November 1st, 2019, Kuncai only buys natural mica from sources in Brazil and is, in parallel, concentrating on the further engineering and production of synthetic mica in the company's own production facilities in Fuqing, China.

All products manufactured at Kuncai from November 1st, 2019 are based on natural mica from Brazil or on the synthetic mica we produce.

Kuncai's source in Brazil combines the mining and the processing of mica under one roof to ensure transparency and enable us to track the mica back to its origins. In order to secure a second mica source as a backup for the future, Kuncai is very interested in acquiring its own mine in India, purchasing it from the government so we can fully control the mica supply.

Kuncai is still proactively working on the child labor topic related to mica mines in the area of Jkarkhand/Bihar, India. Kuncai strongly opposes to child labor and we will do all we can to prevent child labor in our supply chain. Please see for our activities regarding child labor also our website (www.fjkuncai.com) under the header CRS. Below you find a summary of this. Kuncai has four folded approach toward this complex topic.

1 Control over our own supply chain

Since we do not allow child labor in our supply chain, all our suppliers have signed contracts, in which is stated that no child labor is allowed and is not present, not in the factory nor in the mining of mica. Next to that we frequently audit our suppliers and visit the factories and the mines with our suppliers. The suppliers also present documentation of local government controls. During our audits we have found no evidence of child labor. End of 2015 we decided to further improve our efforts in controlling our supply chain and involved Child Right Organization "Terre des Hommes" to think with us, what further steps can be taken. Furthermore we decided to be part of the "Responsible Mica Initiative" in 2017.

We decided in March 2016 to establish our own company Kuncai India, so we are able to source directly from mines and can audit the mines ourselves. In order to secure a second natural mica source as a backup for the future, Kuncai is very interested in acquiring its own mine in India, purchasing it from the government so we can fully control the mica supply. Kuncai India will then take over the steering and managing of this mine. Kuncai's intention is here to apply all relevant Code of Conduct regulations of our company to this new mine site in India to ensure good working conditions for the employees.

Yearly a responsibility report on our sourcing of natural mica will be published. This report will be published on our website and will state our efforts to control our supply chain for natural mica and will include statements of the involved NGOs, Associations and the external audit company, about the findings of the audits.

2 Partnership with Terre des Hommes

In January of 2016 we have contacted the international child right organization “Terre des Hommes” in The Netherlands and proposed to join forces and work together on improving the child labor situation in the mica industry in India. Terre des Hommes has developed an ambitious program with the participation of Kuncai “Beauty and the Beast, let’s beat child labor in the mining industry”. The goal of this three years program is to eliminate child labor in the mica industry and save 10.000 children from child labor and provide schools and education.

Kuncai is the first partner in this program and will contribute € 500.000. Next to our financial contribution, we will act as ambassadors of the program towards all parties involved, with a strong focus on our industry and the Indian Government, to work out best practices and change the present situation. We have committed to ourselves for the coming three years. It is a complex challenge and this requires a structural and holistic approach through the complete supply chain and will ask cooperation between six actors (Children at risk, Communities, Government, Civil Society Organizations, Law Enforcement and Private Sector).

3 Member of the Responsible Mica Initiative

Kuncai extensively supports initiatives against child labor. We are an active member of the Responsible Mica Initiative (RMI) (www.responsible-mica-initiative.com), an industry-wide initiative of producers and key users of mica-based products who have joined forces to eradicate child labor and create acceptable working conditions in India. RMI will continue to work with governments, businesses and civil society organizations to implement responsible working conditions and eliminate child labor by the end of 2022.

4 Synthetic mica

An alternative to Natural Mica is Synthetic Mica. This very pure mica equivalent, which is produced in a factory, dedicated for very high temperature cooking of minerals, is offering technical advantages over natural mica, as it has virtually no contaminants, allowing the production of high quality automotive paints and cosmetics. Cosmetics are applied on skin and therefore they look for the highest purest pearl pigments. The high purity pigments are made from synthetic mica.

Kuncai started the manufacture of Synthetic Mica many years ago, nowadays it is the largest manufacturer of Synthetic Mica for producing pearlescent pigment in the world, but for price reasons the major part of the pearl pigment market has not made the switch yet.

Although the alternative pigment is there, Kuncai has taken its responsibility in making important steps to invest heavily in fighting the problem in the Indian mica industry. If we are not able to create a child labor free and legal mica industry in India, the industry could consider the switch towards an undisputed product like synthetic mica.

June 20th 2020