



Safety Data Sheet

BLUE IRIS

Version: 4.0

Page: 1/9
(30322268/SDS_COS_US/EN)

1. Identification

Product identifier used on the label

Blue Iris

Recommended use of the chemical and restriction on use

Recommended use*: cosmetics

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

TKB TRADING, LLC

1101 9th Avenue

Oakland, CA 94606

Tel: (510)-922-9027

www.tkbtrading.com

Other means of identification

Chemical family: metal oxides

INCI Name: Mica, Titanium Dioxide, Ferric Ferrocyanide

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition / Information on Ingredients**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

| <u>CAS Number</u> | <u>Weight %</u> | <u>Chemical name</u> |
|-------------------|-------------------|---|
| 12001-26-2 | >= 45.0 - < 65.0% | Mica-group minerals |
| 13463-67-7 | >= 35.0 - < 55.0% | Titanium dioxide |
| 14038-43-8 | >= 1.0 - < 5.0% | Ferrate(4-), hexakis(cyano-.kappa.C)-, iron(3+) (3:4), (OC-6-11)- |

The product contains:

| <u>CAS Number</u> | <u>Weight %</u> | <u>Chemical name</u> |
|-------------------|-----------------|---|
| 12001-26-2 | 46.0 - 59.0% | Mica-group minerals |
| 13463-67-7 | 38.0 - 50.0% | Titanium dioxide |
| 14038-43-8 | 1.0 - 4.0% | Ferrate(4-), hexakis(cyano-.kappa.C)-, iron(3+) (3:4), (OC-6-11)- |

4. First-Aid Measures**Description of first aid measures****General advice:**

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, 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:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek immediate medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment neededNote to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Additional information:

Use extinguishing measures to suit surroundings.

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

No particular hazards known.

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions

Do not empty into drains.

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

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.

7. Handling and Storage

Precautions for safe handling

Avoid dust formation. Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:

No special precautions necessary.

See MSDS section 5 - Fire fighting measures. Prevent electrostatic charge accumulation.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE)

Further information on storage conditions: No special precautions necessary.

Keep in a cool place. Keep container dry.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

| | | |
|---|-----------|--|
| Mica-group minerals | OSHA PEL | TWA value 3 mg/m ³ Respirable dust ; TWA value 20 millions of particles per cubic foot of air ; |
| | ACGIH TLV | TWA value 3 mg/m ³ Respirable fraction ; |
| Titanium dioxide | OSHA PEL | PEL 15 mg/m ³ Total dust ; TWA value 10 mg/m ³ Total dust ; |
| | ACGIH TLV | TWA value 10 mg/m ³ ; |
| Ferrate(4-), hexakis(cyano-.kappa.C)-, iron(3+) (3:4), (OC-6-11)- | OSHA PEL | PEL 5 mg/m ³ (CN); Skin Designation (CN); The substance can be absorbed through the skin. TWA value 5 mg/m ³ (CN); |

Personal protective equipment

Respiratory protection:

Observe OSHA regulations for respirator use (29 CFR 1910.134). Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Due to the colouring 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 the shift. Wash soiled clothing immediately.

9. Physical and Chemical Properties

| | |
|-----------------------------------|---|
| Form: | powder |
| Odour: | odourless |
| Odour threshold: | not determined |
| Colour: | blue with violet reflection |
| pH value: | 2.2 - 5.0 (4 %(m)) |
| Melting point: | The substance / product decomposes. |
| Boiling point: | not applicable, solid with a melting temperature over 300 °C |
| Flash point: | not applicable |
| Flammability: | not flammable |
| Flammability of Aerosol Products: | not applicable, the product does not form flammable aerosoles |
| Lower explosion limit: | For solids not relevant for classification and labelling. |

| | |
|---|--|
| Upper explosion limit: | For solids not relevant for classification and labelling. |
| Autoignition: | Study does not need to be conducted. |
| Vapour pressure: | not applicable |
| Density: | 3.1 kg/l (20 °C) |
| Relative density: | 3.1 |
| Bulk density: | 303 kg/m ³ |
| Vapour density: | The product is a non-volatile solid. |
| Partitioning coefficient n-octanol/water (log Pow): | Study does not need to be conducted. |
| Self-ignition temperature: | not self-igniting |
| Thermal decomposition: | No decomposition if stored and handled as prescribed/indicated. |
| Viscosity, dynamic: | Study does not need to be conducted. |
| Viscosity, kinematic: | not applicable, the product is a solid |
| Particle size: | No data available. |
| Solubility in water: | insoluble |
| Evaporation rate: | The product is a non-volatile solid. |
| Other Information: | If necessary, information on other physical and chemical parameters is indicated in this section., No further information available. |

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
No corrosive effect on metal.

Oxidizing properties:
not fire-propagating

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.
The product is chemically stable.
Hazardous polymerization will not occur.

Conditions to avoid

Avoid dust formation. Avoid deposition of dust. No special precautions other than good housekeeping of chemicals.

Incompatible materials

Ethylene Oxide, aqueous alkalis, strong bases

Hazardous decomposition products

Decomposition products:
Hazardous decomposition products: cyanides, nitrogen oxides

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

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

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

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.

Inhalation

Type of value: LC50

not determined

Dermal

Type of value: LD50

not determined

Irritation / corrosion

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

Skin

Species: rabbit

Result: non-irritant

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Eye

Species: rabbit

Result: non-irritant

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Sensitization

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Prolonged or repeated exposure may cause pulmonary problems. The product has not been tested. The statement has been derived from the properties of the individual components.

Genetic toxicity

Assessment of mutagenicity: No data was available concerning mutagenic activity. The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity

Information on: Titanium dioxide

Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity

Assessment of teratogenicity: No data was available concerning toxicity to development.

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Medical conditions aggravated by overexposure

Inhalation of dust could aggravate existing respiratory conditions.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected.

Toxicity to fish

LC50 (96 h) > 100 mg/l, Fish

The product has not been tested. The statement has been derived from the properties of the individual components.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

EC0: > 100 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

The colourant is insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plant

Additional information

Other ecotoxicological advice:

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.

13. Disposal considerations

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. This product does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity, or toxicity).

Container disposal:

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

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Cosmetic TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

NFPA Hazard codes:

Health: 1 Fire: 0 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 0 Physical hazard: 0

16. Other Information

SDS Prepared on: 2018/06/14

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.
