

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



50110 Pearl Luster IRIODIN® Colibri Star-Gold, fine

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Revised edition: 16.12.2013

Version: 3.6

Printed: 17.06.2014

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Pearl Luster IRIODIN® Colibri Star-Gold, fine

Article No.: 50110

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:
Coloring agent

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.de

E-Mail: info@kremer-pigmente.de

1.4. Emergency #s.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to EC Regulation 1272/2008

This product is not classified as hazardous according to the CLP/GHS Directive.

Classification according to EC Regulation No. 67/548 or No. 1999/45

The material is not subject to classification according to EC lists.

Safety Phrases:

S22: Do not breathe dust.

Possible Environmental Effects:

2.2. Label elements

Classification according to EC Regulation 1272/2008

This product does not require classification and labelling as hazardous according to CLP/GHS.

Hazard designation:

Signal word:

Hazard designation:

Safety designation:

P260a

Do not breathe dust.

Hazardous components for labelling:

2.3. Other hazards

No special hazards known.

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3. Composition/Information on Ingredients

- . 1. Substance
- . 2. Mixture

Chemical Characterization: Mica laminated with titanium dioxide, tin oxide, silicium oxide and additives.

Hazardous Ingredients:

Additional information:

4. First Aid Measures

- \$. 1. Description of the *irst +id Measures

General information:

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.

After skin contact:

Wash with soap and rinse with plenty of water.

After eye contact:

Rinse open eyes with plenty of water. In case of discomfort seek medical help.

After ingestion:

Drink plenty of water. Get medical help in case of discomfort.

- \$. 2. Most i " portant Sy " pto " s and ! ffects, both +cute and Delayed

Symptoms:

No further information available.

Effects:

No further information available.

- \$. . Indication of any l " " ediate Medical +ttention and special -reat " ent needed

Treatment:

No information available.

5. Fire-Fighting Measures

- .. 1. !xtinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

None known.

- .. 2. Special (a)ards arising fro " the Substance or Mixture

Special hazards:

Product is not flammable.

In case of fire: hazardous vapors may be released.

- .. . +dvice for *irefighters

Protective equipment:

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Wear self-contained respiratory protective device.

Further information:

6. Accidental Release Measures

0. 1. Personal Precautions, Protective ! / uip " ent and ! " ergency Procedures

Personal precautions:

Do not inhale dust.

Evacuate the danger area, observe emergency procedures, consult an expert.

0. 2. ! nviron " ental Precautions

Environmental precautions:

No special measures required.

0. . Methods and Material for %ontain " ent and %leaning Up

Methods and material:

Take up mechanically and collect in suitable container for disposal. Rinse spill area. Avoid dust formation.

0. \$. Reference to other Sections

Dispose of contaminated material according to Section 13.

7. Handling and Storage

1. 1. Precautions for Safe (andling

Instructions on safe handling:

Avoid formation of dust. Do not inhale dust.

Hygienic measures:

No special measures required.

1. 2. %onditions for Safe Storage, including any Inco " patibilities

Storage conditions:

Store in tightly sealed containers in a dry room.

Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion protection:

No special measures necessary.

Storage class (VCI):

10-13

Further Information:

1. . Specific ! nd Use2s3

Further information:

See Section 1.2.; no other uses provided

8. Exposure Controls/Personal Protection

4. 1. Para " eters to be %onrolled

Parameters to be controlled (DE):

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TRGS 900

TWA-Value: 3 mg/m³ air-borne fraction (general dust limit)

TWA: 10 mg/m³ general dust limit inhalable fraction.

Top limit: 4-fold in 15 min.

Iron(III) oxide (CAS 1309-37-1): AGW (TRGS 900): 3 mg/m³ (airborne dust), 10 ml/m³ (inhalable dust); 2(II)

Silicon dioxide, CAS 112926-00-8 (7631-86-9), TWA-Value: 4 mg/m³ (inhalable dust fraction)

Parameters to be controlled (EC):

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

4.2. !xposure %ontrols

Technical protective measures:

Technical protective measures have priority to personal protective measures.

Personal Protection

General protective measures:

Wash hands before breaks and after work.

Respiratory protection:

Dust mask recommended when very dusty (with particle filter P1).

Hand protection:

Not required

Protective glove material:

Eye protection:

Recommended (EN 166).

Body protection:

Environmental precautions:

No special measures required.

9. Physical and Chemical Properties

6.1. Infor " ation on 5asic Physical and %he " ical Properties

Form: powder

Color: gold colored

Odor: odorless

Odor threshold:

No information available.

pH-Value:

4 - 9 (100 g/l H₂O, 20°C)

Melting temperature:

not available

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<i>Boiling temperature:</i>	<i>not available</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not available</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>2.8 - 3.0 g/cm³ (20°C)</i>
<i>Solubility in water:</i>	<i>practically insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>No information available.</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	<i>not available</i>
<i>Explosive properties:</i>	<i>Product is not explosive.</i>
<i>Oxidizing properties:</i>	<i>No information available.</i>
<i>Bulk density:</i>	<i>280 - 320 kg/m³</i>
6.2. <i>*urther Infor" ation</i>	
<i>Solubility in solvents:</i>	
<i>Viscosity, kinematic</i>	
<i>Burning class:</i>	
<i>Solvent content:</i>	
<i>Solid content:</i>	
<i>Particle size:</i>	<i>10 - 60 μm</i>

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Other information:

10. Stability and Reactivity

- 17.1. Reactivity
Stable if used according to specifications.
- 17.2. Chemical Stability
Stable at room temperature.
- 17.3. Possibility of Hazardous Reactions
No information available.
- 17.4. Conditions to Avoid
Conditions to avoid:
No further information available.
- Thermal decomposition:*
No data available.
- 17.5. Incompatible Materials
No information available.
- 17.6. Hazardous Decomposition Products
None known.
- 17.7. Further Information
-

11. Toxicological Information

- 11.1. Information on Toxicological Effects
- Acute Toxicity*
- LD50, oral:*
No information available.
- LD50, dermal:*
No information available.
- LC50, inhalation:*
No information available.
- Primary effects*
- Irritant effect on skin:*
No information available
- Irritant effect on eyes:*
No information available.
- Inhalation:*
No information available.
- Ingestion:*
No information available
- Sensitization:*
No information available.
- Mutagenicity:*
No data available.

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Reproductive toxicity:

No data available.

Cancerogenity:

No data available.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No data available.

Additional toxicological information:

Avoid inhalation of dust. Even inert dusts can impair the function of the respiratory system.

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological Information

12.1. + / uatic - oxicity

No information available.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12.2. Persistency and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of P5-8 und vPvP assessment

According to Annex VIII to Regulation (EC) No. 1907/2006 (REACH): this product is neither a PBT (persistent/bioaccumulative/toxic) or vPvB (very persistent/very bioaccumulative/very toxic) substance nor does it contain a PBT or vPvB substance.

12.6. Other adverse effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

When used properly, no ecological problems expected.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

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*Dispose of according to official national and local regulations.
Do not mix with other waste.*

European Waste Code (EWC):

Uncleaned packaging:

Packaging may be disposed of in the same manner as the product.

Waste Code No.:

14. Transport Information

1\$. 1. U# "u" ber

ADR, IMDG, IATA

1\$. 2. U# Proper Shipping #a " e

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

1\$. . - ransport (a)ard %lasses

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel no.:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

1\$. \$. Pac: aging ; roup

ADR/RID:

not applicable

IMDG:

IATA:

1\$. .. !nviron " ental (a)ards

None

1\$. 0. Special Precautions for User

Not classified as a dangerous good under transport regulations.

1\$. 1. - ransportation in 5ul: according to +nnex II of M+RP ' & 1 <14 and I5%8%ode

not applicable

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1.4. Further Information

15. Regulatory Information

1.1. Safety, (Health and Environmental Regulations & legislation specific for the Substance or Mixture)

Water hazard class:

0, not hazardous

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

1.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern above the legal limit value (> 0.1 % (w/w) REACH Regulation (EC) 1907/2006, Article 57).

1. Further Information

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.