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according to Regulation (EC) No. 1907/2006

Revision Date 22.09.2016

Version 2.6

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Art. Nr. 1781111

Product name Iriodin® Silber Seidenglanz

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Colouring agent

For additional information on uses please refer to the Merck Chemicals

portal (www.merckgroup.com).

1.3 Details of the supplier of the safety data sheet

Responsible Department EQ-RS * e-mail: prodsafe@merckgroup.com

Regional representation Merck Chemicals Ltd * Boulevard Industrial Park * Padge Road *

Beeston * Nottingham * NG9 2JR * Tel. 01159 430840 *

information@merckchem.co.uk.

1.4 Emergency telephone

number

+49 (0) 6151 722440

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

This mixture is not classified as dangerous according to European Union legislation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Precautionary statements

Prevention

P260 Do not breathe dust.

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

according to Regulation (EC) No. 1907/2006

Catalogue No. 1781111

Product name Iriodin® 111 Rutile Fine Satin

Safety data sheet available on request.

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature Mica coated with:

titanium dioxide, tin oxide

3.1 Substance

Not applicable

3.2 Mixture

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical Name (Concentration)

CAS-No. Registration number Classification

Substance with a Community workplace exposure limit

tin dioxide (>= 1 % - < 10 %)

18282-10-5 01-2119946062-44-

XXXX

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

according to Regulation (EC) No. 1907/2006

Catalogue No. 1781111

Product name Iriodin® 111 Rutile Fine Satin

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

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.

5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6. Accidental release measures

6.1 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.

6.2 Environmental precautions

No special precautionary measures necessary.

6.3 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.

6.4 Reference to other sections

Indications about waste treatment see section 13.

according to Regulation (EC) No. 1907/2006

Catalogue No. 1781111

Product name Iriodin® 111 Rutile Fine Satin

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Observe label precautions.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Components

Basis Value Threshold Remarks

limits

mica (muscovite) (12001-26-2)

EH40 WEL Time Weighted Average 0.8 mg/m³ Form of exposure: Respirable.

(TWA):

Time Weighted Average 10 mg/m³ Form of exposure: Inhalable

(TWA):

tin dioxide (18282-10-5)

according to Regulation (EC) No. 1907/2006

Catalogue No.

1781111

Product name Iriodin® 111 Rutile Fine Satin

EU ELV

Time Weighted Average

2 mg/m³

Expressed as: as Sn

(TWA):

EH40 WEL Sho

Short Term Exposure

4 mg/m³

Expressed as: as Sn

Limit (STEL):

Time Weighted Average

2 mg/m³

Expressed as: as Sn

General threshold limit value for dust

(TWA):

EH40 WEL

Time Weighted Average

4 mg/m³

Form of exposure: Respirable dust.

(TWA):

Time Weighted Average

10 mg/m³

Form of exposure: Inhalable dust.

(TWA):

Recommended monitoring procedures

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection

Safety glasses

Hand protection

not required

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances. The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

according to Regulation (EC) No. 1907/2006

Catalogue No. 1781111

Product name Iriodin® 111 Rutile Fine Satin

Environmental exposure controls

No special precautionary measures necessary.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form powder

Colour silver

Odour odourless

Odour Threshold Not applicable

pH 8 - 11

at 100 g/l 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) The product is not flammable.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapour pressure No information available.

Relative vapour density No information available.

according to Regulation (EC) No. 1907/2006

Catalogue No. 1781111

Product name Iriodin® 111 Rutile Fine Satin

Density 3.0 - 3.2 g/cm3

at 20 °C

Relative density No information available.

Water solubility at 20 °C

insoluble

Partition coefficient: n-

No information available.

octanol/water

Auto-ignition temperature No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

Explosive properties Not classified as explosive.

Oxidizing properties none

9.2 Other data

Bulk density 220 - 240 kg/m3

Particle size Particle size

< 15 µm

SECTION 10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

no information available

10.4 Conditions to avoid

according to Regulation (EC) No. 1907/2006

Catalogue No. 1781111

Product name Iriodin® 111 Rutile Fine Satin

no information available

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

no information available

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Mixture

Acute oral toxicity

This information is not available.

Acute inhalation toxicity

This information is not available.

Acute dermal toxicity

This information is not available.

Skin irritation

This information is not available.

Eye irritation

This information is not available.

Sensitisation

This information is not available.

Germ cell mutagenicity

This information is not available.

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

Teratogenicity

This information is not available.

Specific target organ toxicity - single exposure

This information is not available.

according to Regulation (EC) No. 1907/2006

Catalogue No. 1781111

Product name Iriodin® 111 Rutile Fine Satin

Specific target organ toxicity - repeated exposure

This information is not available.

Aspiration hazard

This information is not available.

11.2 Further information

The results of animal experiments using pigments of this type indicate no toxicologically relevant properties. Since the substance is poorly absorbed, no systemic effects 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; LD₅₀ (oral, rat): not determinable; all animals still alive after 5,000 mg/kg.

Subchronic toxicity (rat): no appreciable findings up to 20 000 ppm.

LC₅₀ (inhalational, rat):> 10.1 ml/l/4 h

Handle in accordance with good industrial hygiene and safety practice.

Components

tin dioxide

Acute oral toxicity
LD50 Rat: > 20,000 mg/kg
(RTECS)

SECTION 12. Ecological information

Mixture

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

according to Regulation (EC) No. 1907/2006

Catalogue No.

1781111

Product name

Iriodin® 111 Rutile Fine Satin

Discharge into the environment must be avoided.

Components

tin dioxide

Toxicity to daphnia and other aquatic invertebrates

NOEC Daphnia magna (Water flea): > 100 mg/l; 48 h

(above the solubility limit in the test medium) (own results)

EC50 Daphnia magna (Water flea): > 100 mg/l; 48 h (above the solubility limit in the test medium) (own results)

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

SECTION 13. Disposal considerations

Waste treatment methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Notice Directive on waste 2008/98/EC.

SECTION 14. Transport information

Land transport (ADR/RID)

14.1 - 14.6

Not classified as dangerous in the meaning of transport

regulations.

Inland waterway transport (ADN)

Not relevant

Air transport (IATA)

according to Regulation (EC) No. 1907/2006

Catalogue No. 1781111

Product name Iriodin® 111 Rutile Fine Satin

14.1 - 14.6 Not classified as dangerous in the meaning of transport

regulations.

Sea transport (IMDG)

14.1 - 14.6 Not classified as dangerous in the meaning of transport

regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15. Regulatory information

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

EU regulations

Major Accident Hazard SEVESO III
Legislation Not applicable

Regulation (EC) No 1005/2009 on substances that not regulated

deplete the ozone layer

Regulation (EC) No 850/2004 of the European

Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending

Directive 79/117/EEC

This product does not contain substances

of very high concern according to

not regulated

Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of \geq 0.1 % (w/w).

National legislation

Storage class 10 - 13

Substances of very high concern (SVHC)

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

according to Regulation (EC) No. 1907/2006

Catalogue No. 1781111

Product name Iriodin® 111 Rutile Fine Satin

Training advice

Provide adequate information, instruction and training for operators.

Labelling

Precautionary statements

Prevention

P260 Do not breathe dust.

Further information

Safety data sheet available on request.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.