

Material Safety Data Sheet

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



43340 Hokaido-Orange

Page 1

Revised edition: 14.01.2016

Version: 09

Printed: 09.03.2016

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

1.1. Product Identifier

Product Name: Hokaido-Orange

Article No.: 43340

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 (Producer/Importer)

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

Importer: --

1.4. Emergency No.

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

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:

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:
Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

Other Hazards

next page: 2

Material Safety Data Sheet

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



43340 Hokaido-Orange

Page 2

Revised edition: 14.01.2016

Version: 09

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2.3.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Rutile, Tin Zinc: CAS No. 85536-73-8, EINECS 287-559-6: 90 - 100 %

Silicic acid, amorphous: CAS No. 7631-86-9, EINECS 231-545-4: 5 - 10 %

Hazardous Ingredients:

Additional information:

This product is made by means of a high temperature calcination of individual components. Due to its unique crystalline structure, the properties of this product must not correspond to those of the individual metals and oxides.

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Do not leave affected persons unattended.

After inhalation:

No special measures required.

Supply fresh air and keep patient calm.

In case of unconsciousness place patient stable in side position for transportation.

After skin contact:

Wash with soap and rinse with plenty of water.

Remove contaminated clothing.

After eye contact:

Rinse open eyes with plenty of water for at least 15 minutes.

Remove contact lens.

Seek medical attention if irritation persists.

After ingestion:

Rinse mouth with water and give plenty of water to drink. Consult a physician.

Do not give milk or alcohol to drink.

Never give anything by mouth to an unconscious person.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Irritation of eyes and skin.

Irritation of the respiratory tract.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

next page: 3

Material Safety Data Sheet

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



43340 Hokaido-Orange

Page 3

Revised edition: 14.01.2016

Version: 09

Printed: 09.03.2016

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

*Use extinguishing media for surrounding fire.
Product itself does not burn.*

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

*No special hazards.
Product is not flammable.*

5.3. Advice for Firefighters

Protective equipment:

Wear suitable protective clothing.

Further information:

Avoid contamination of sewage system, open water ways and ground water.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Avoid formation of dust, wear protective clothing.
Ensure adequate ventilation.
Do not inhale dust.*

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soil, drains and surface waters.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Take up mechanically and collect in suitable containers for disposal. Avoid dust formation.

6.4. Reference to other Sections

Protective clothing, see Section 8.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

*No special measures necessary if properly handled.
Avoid formation of dust. Do not inhale dust.
Provide adequate ventilation.*

Hygienic measures:

Do not eat or drink during work. Do not smoke.

7.2. Conditions for Safe Storage, including any Incompatibilities

next page: 4

Material Safety Data Sheet

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



43340 Hokaido-Orange

Page 4

Revised edition: 14.01.2016

Version: 09

Printed: 09.03.2016

Storage conditions:

Store in tightly sealed containers in a well ventilated location.

Requirements for storage areas and containers:

Store in correctly labelled containers.

Information on fire and explosion protection:

Electrical installations / working materials must comply with the technological safety standards.

Storage class (VCI):

13; Non combustible solids

Further Information:

No decomposition if used and stored according to specifications.

7.3. Specific End Use(s)

No detailed information on use is given, as no exposure scenarios according to Article 14.4 Regulation (EC) 1907/2006 are required.

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Tin compounds, inorganic (as Sn): 2 mg/m³

Parameters to be controlled:

Tin compounds, inorganic (as Sn): 2 mg/m³ (Portugal)

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

Biological limits: no limit values available for the ingredients of this product.

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation in case of dust formation.

Technical protective measures have priority to personal protective measures.

Personal Protection

General protective measures:

Wash hands before breaks and after work.

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

None required under normal operating conditions.

Hand protection:

Protective gloves recommended in case of prolonged or repeated
next page: 5

Material Safety Data Sheet

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



43340 Hokaido-Orange

Page 5

Revised edition: 14.01.2016

Version: 09

Printed: 09.03.2016

contact.

Protective glove material:

PVC

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Safety shoes.

Environmental precautions:

Avoid spilling and release of product. Follow the national emission regulations.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: *powder*

Color: *orange*

Odor: *odorless*

Odor threshold:
No information available.

pH-Value: *8.5*

Melting temperature:
not available

Boiling temperature:
not available

Flash point:
not available

Evaporation rate:
No information available.

Flammability (solid, gas):
not available

Upper explosion limit:
no information available

Lower explosion limit:
no information available

Vapor pressure:
not applicable

Vapor density:
No information available.

Density: *4.5 g/cm³*

Solubility in water: *insoluble*

Coefficient of variation (n-

next page: 6

Material Safety Data Sheet

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



43340 Hokaido-Orange

Page 6

Revised edition: 14.01.2016

Version: 09

Printed: 09.03.2016

Octanol/Water):

not applicable

Auto-ignition temperature:

No information available.

Decomposition temperature:

No data available.

Viscosity, dynamic:

not applicable

Explosive properties:

not available

Oxidizing properties:

No information available.

Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size:

No data available.

Other information:

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

No decomposition if used according to specifications.

10.3. Possibility of Hazardous Reactions

Hazardous polymerisation will not occur.

10.4. Conditions to Avoid

Conditions to avoid:

No information available.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

None known.

10.6. Hazardous Decomposition Products

None if stored and handled according to specifications.

next page: 7

Material Safety Data Sheet

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



43340 Hokaido-Orange

Page 7

Revised edition: 14.01.2016

Version: 09

Printed: 09.03.2016

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Amorphous Silicic acid (7631-86-9): > 3160 mg/kg (mouse); > 3300 (rat)

LD50, dermal:

Amorphous Silicic acid (7631-86-9): > 2000 mg/kg (24h, rabbit)

LC50, inhalation:

Amorphous Silicic acid (7631-86-9): > 2.08 mg/kg (4h, rat)

Primary effects

Irritant effect on skin:

Irritating to skin.

Irritant effect on eyes:

May irritate eyes.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No information available.

Mutagenicity:

No data available.

Reproductive toxicity:

No information available.

Cancerogeny:

Amorphous silicic acid (CAS 7631-86-9):
IARC: Group 3: Not classifiable as to its carcinogenic to humans.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No data available.

Additional toxicological information:

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

Zinc compound: LC50: 0.56 mg/l (96h, Rainbow trout)

Daphnia toxicity:

Zinc compound: EC50: 2.8 mg/l (48h, Daphnia magna)

next page: 8

Material Safety Data Sheet

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



43340 Hokaido-Orange

Page 8

Revised edition: 14.01.2016

Version: 09

Printed: 09.03.2016

Bacteria toxicity:

No data available.

Algae toxicity:

No information available.

12. 2. Persistency and Degradability

Not readily biodegradable.

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

Not applicable.

12. 6. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

There are no data available on the product itself.

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

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

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

14. 2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14. 3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

next page: 9

Material Safety Data Sheet

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



43340 Hokaido-Orange

Page 9

Revised edition: 14.01.2016

Version: 09

Printed: 09.03.2016

Classification code:

Tunnel no.:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

Hazard no.:

14. 4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14. 5. Environmental Hazards

Not classified as environmentally hazardous.

14. 6. Special Precautions for User

not applicable

14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14. 8. Further Information

15. Regulatory Information

15. 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:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

15. 3. Further Information

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable

Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable

Regulation (EC) 850/2004 - Persistent organic pollutants and amending Directive 79/117/EEC: not regulated / not applicable

Regulation (EC) 689/2008 concerning the export and import of dangerous chemicals: not regulated / not applicable

Listed in:

EINECS, TSCA (US), AICS (AUS), NDSL (CA), ECL (KR), ENCS
next page: 10

Material Safety Data Sheet

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



43340 Hokaido-Orange

Page 10

Revised edition: 14.01.2016

Version: 09

Printed: 09.03.2016

(JP), PICCS (PH), NZIoC (NZ)

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.