

Safety Data Sheet

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



48060 Iron Oxide Orange 960, light

Page 1

Revised edition: 03.09.2018

Version: 1

Printed: 17.06.2020

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

1.1. Product Identifier

Product Name: Iron Oxide Orange 960, light

Article No.: 48060

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

Identified uses:

Coloring agent (pigment and dyes), inorganic.

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.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

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

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

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

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Hazard designation:

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

2.3. Other Hazards

Dust may be produced when working with this material, which can cause a mechanical irritation of eyes, nose and respiratory tract.

3. Composition/Information on Ingredients

3.1. Substance

Mixture

next page: 2

Safety Data Sheet

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



48060 Iron Oxide Orange 960, light

Page 2

Revised edition: 03.09.2018

Version: 1

Printed: 17.06.2020

3.2.

Chemical Characterization: Mixture of Pigment Yellow 42.77492 (FeO(OH)) and Pigment Red 101.77491 (Fe₂O₃)

Information on Components / Hazardous Ingredients:

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Take affected persons out into the fresh air.

After inhalation:

*Supply fresh air and keep patient calm.
If breathing is difficult call a physician.*

After skin contact:

Wash off immediately with soap and plenty of water and rinse thoroughly.

After eye contact:

Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Should irritation continue, seek medical advice.

After ingestion:

No special measures required.

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

Symptoms:

No further information available.

Effects:

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

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water spray.

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

No special hazards.

5.3. Advice for Firefighters

Protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece

next page: 3

Safety Data Sheet

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



48060 Iron Oxide Orange 960, light

Page 3

Revised edition: 03.09.2018

Version: 1

Printed: 17.06.2020

operated in positive pressure mode.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Ensure adequate ventilation.

Wear protective clothing.

Keep unprotected persons out of danger zone.

Floor may be slippery; use care to avoid falling.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

Contact local authorities if product pollutes soil or vegetation.

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

See Section 13 for information on disposal.

Protective clothing, see Section 8.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

No special measures required.

Hygienic measures:

Wash thoroughly after handling.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a dry and cool room.

Requirements for storage areas and containers:

Keep container tightly closed.

Information on fire and explosion protection:

No special measures necessary.

Storage class:

13; Non combustible solids (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

next page: 4

Safety Data Sheet

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



48060 Iron Oxide Orange 960, light

Page 4

Revised edition: 03.09.2018

Version: 1

Printed: 17.06.2020

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900 (D 1/2006): FeO(OH)

TLV: 10 mg/m³ inhalable fraction (general dust limit)

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

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

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Iron oxide hydroxide (CAS 51274-00-1):

10 mg/m³ (worker, inhalation, long-term exposure - systemic and local effects)

Iron(III) oxide (CAS 1309-37-1):

10 mg/m³ (worker, inhalation, long-term exposure - systemic and local effects)

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation.

Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.

Personal Protection

General protective measures:

Do not inhale dust. Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

Respiratory protection:

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

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Eye protection:

Safety glasses (EN 166)

Body protection:

Protective clothing.

Environmental precautions:

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder

Color: orange

next page: 5

Safety Data Sheet

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



48060 Iron Oxide Orange 960, light

Page 5

Revised edition: 03.09.2018

Version: 1

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Odor:	odorless
Odor threshold:	No information available.
pH-Value:	4 - 8 (5 %)
Melting temperature:	> 1000°C (> 1832°F)
Boiling temperature:	not applicable
Flash point:	not applicable
Evaporation rate:	This product is a non-volatile solid.
Flammability (solid, gas):	not applicable
Upper explosion limit:	no information available
Lower explosion limit:	no information available
Vapor pressure:	not applicable
Vapor density:	This product is a non-volatile solid.
Density:	4.5 g/cm ³ (20°C)
Solubility in water:	insoluble
Coefficient of variation (n-Octanol/Water):	not determined
Auto-ignition temperature:	not applicable
Decomposition temperature:	ca. 180°C
Viscosity, dynamic:	not applicable
Explosive properties:	Product does not present an explosion hazard.
Oxidizing properties:	none
Bulk density:	300 - 1000 kg/m ³

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

next page: 6

Safety Data Sheet

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



48060 Iron Oxide Orange 960, light

Page 6

Revised edition: 03.09.2018

Version: 1

Printed: 17.06.2020

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

No information available.

10.2. Chemical Stability

The product is chemically stable.

10.3. Possibility of Hazardous Reactions

None if handled and stored according to specifications.

10.4. Conditions to Avoid

Conditions to avoid:

No information available.

Thermal decomposition:

> 180°C. Conversion to Fe₂O₃.

10.5. Incompatible Materials

No information available.

10.6. Hazardous Decomposition Products

None if stored and handled according to specifications.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD₅₀, oral: > 5000 mg/kg (rat)

LD₅₀, dermal: No information available.

LC₅₀, inhalation: No information available.

Primary effects

Irritant effect on skin: Non irritating

Irritant effect on eyes: Non-irritating to eyes

Inhalation:

Chronic effects : Repeated or prolonged inhalation of dust can cause a chronic irritation of the respiratory tract.

Ingestion:

next page: 7

Safety Data Sheet

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



48060 Iron Oxide Orange 960, light

Page 7

Revised edition: 03.09.2018

Version: 1

Printed: 17.06.2020

No irritant effect known.

Sensitization:

No relevant data found.

Mutagenicity:

No relevant data found.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No relevant data found.

Additional toxicological information:

By analogy with a product of similar composition.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

LC50: > 1000 mg/l (96h; Leuciscus idus)

Daphnia toxicity:

No information available.

Bacteria toxicity:

No data available.

Algae toxicity:

12.2. Persistency and Degradability

Methods for the evaluation of the biological degradability are not applicable for inorganic substances.

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.

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:

next page: 8

Safety Data Sheet

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



48060 Iron Oxide Orange 960, light

Page 8

Revised edition: 03.09.2018

Version: 1

Printed: 17.06.2020

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

If product cannot be reused or recycled, it has to be disposed of according to current local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

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:

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

None

14.6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

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

not applicable

next page: 9

Safety Data Sheet

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



48060 Iron Oxide Orange 960, light

Page 9

Revised edition: 03.09.2018

Version: 1

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14.8. Further Information

Do not store together with foodstuffs.

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

0, not hazardous (German Regulation, Assessment by list)

Local regulations on chemical accidents:

Seveso III Directive: not applicable under Directive 2012/18/EC.

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

A Chemical Safety Assessment is not necessary for this product.

15.3. Further Information

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

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

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

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.