

# Safety Data Sheet

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



**15231 IWA-Enogu® Iwahi**

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

### 1.1. Product Identifier

*Product Name:* IWA-Enogu® Iwahi

*Article No.:* 15231

*UFI:* --

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

*Identified uses:*  
Pigment for Nihonga

*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:

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## 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)*

*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:*

### 2.3. Other Hazards

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## 3. Composition/Information on Ingredients

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## 3.1. Substance

## 3.2. Mixture

### Chemical Characterization:

*Inorganic product of fusion.  
All components are bound by vitrification.*

### Information on Components / Hazardous Ingredients:

Silicium dioxide, SiO<sub>2</sub> (amorphous); REACH Reg. No. 01-2119379499-16 70 %

CAS-Nr: 7631-86-9  
EINECS-Nr: 231-545-4  
EC-Nr:

Lead monoxide (Repr. 1A, H302-332-351-360Df-362-372-410); REACH Reg. No. 01-2119531110-62-0014 4.6 %

CAS-Nr: 1317-36-8  
EINECS-Nr: 215-267-0  
EC-Nr: 082-001-00-6

Cadmium oxide (H350-31-361fd-330-372-400-410) 2.4 %

CAS-Nr: 1306-19-0  
EINECS-Nr: 215-146-2  
EC-Nr:

Selenium (H301-331-373-413) 1.1 %

CAS-Nr: 7782-49-2  
EINECS-Nr: 231-957-4  
EC-Nr:

### Additional information:

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

#### General information:

*In case of an accident or if you feel unwell, seek medical advice immediately (show Safety Data Sheet where possible).*

#### After inhalation:

*Supply fresh air and keep patient calm.  
In case of irritation of the respiratory system seek medical help.*

#### After skin contact:

*Wash carefully with plenty of water and soap. Consult a physician in case of skin irritation.*

#### After eye contact:

*Carefully rinse eyes with water for several minutes.  
Seek medical attention if irritation persists.*

#### After ingestion:

*Rinse mouth with water and drink plenty of water.  
Do not induce vomiting.  
If symptoms persist, call a physician.*

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

#### Symptoms:

*No further information available.*

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*Effects:*

4. 3. **Indication of any Immediate Medical Attention and special Treatment needed**

*Treatment:*

*Treat symptomatically.*

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**5. Fire-Fighting Measures**

5. 1. **Extinguishing Media**

*Suitable extinguishing media:*

*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray.*

*Unsuitable extinguishing media:*

*Water with full jet.*

5. 2. **Special Hazards arising from the Substance or Mixture**

*Special hazards:*

*In case of fire: formation of carbon monoxide and dioxide.*

5. 3. **Advice for Firefighters**

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.*

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**6. Accidental Release Measures**

6. 1. **Personal Precautions, Protective Equipment and Emergency Procedures**

*Personal precautions:*

*Wear protective clothing.*

*Avoid formation of dust.*

*Avoid inhalation of dust.*

6. 2. **Environmental Precautions**

*Environmental precautions:*

*Keep spills and cleaning runoff out of municipal sewers and open bodies of water.*

6. 3. **Methods and Material for Containment and Cleaning Up**

*Methods and material:*

*Take up mechanically and collect in suitable containers for disposal.*

6. 4. **Reference to other Sections**

*For information for safe handling see Section 7.*

*See Section 13 for information on disposal.*

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**7. Handling and Storage**

7. 1. **Precautions for Safe Handling**

*Instructions on safe handling:*

*Wear adequate protective clothing (see para. 8).*

*Hygienic measures:*

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

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## 7.2. Conditions for Safe Storage, including any Incompatibilities

### *Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated location.*

*Protect product from humidity.*

*Protect against heat.*

### *Requirements for storage areas and containers:*

*Keep container tightly closed.*

### *Information on fire and explosion protection:*

*Do not store together with: foodstuffs, beverages and feed.*

*Do not store together with explosives, oxidants, radioactive and infectious substances.*

### *Storage class:*

*10-13 (TRSG 510)*

### *Further Information:*

*Storage temperature: 20°C*

## 7.3. Specific End Use(s)

### *Further information:*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

#### *Parameters to be controlled (DE):*

*TRGS 900*

*TLV: 1.25 mg/m<sup>3</sup> air-borne fraction (general dust limit)*

*TLV: 10 mg/m<sup>3</sup> inhalable fraction (general dust limit)*

*Peak limit Category: 2 (II)*

#### *Parameters to be controlled:*

#### *Derived No-Effect Level (DNEL):*

#### *Predicted No-Effect Concentration (PNEC):*

#### *Additional Information:*

### 8.2. Exposure Controls

#### *Technical protective measures:*

*Provide adequate ventilation in case of dust formation.*

#### *Personal Protection*

#### *General protective measures:*

*Avoid contact with skin, eyes and clothing.*

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

*Contaminated work clothing should not be worn out of the workplace. Wash contaminated clothing before reusing.*

#### *Respiratory protection:*

*Respiratory equipment required in case of insufficient ventilation,<sup>5</sup>*

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*filter type P3.*

*Hand protection:*

*Protective gloves (EN 374)*

*Protective glove material:*

*Recommended: Protective index 6, corresponding > 480 min. of permeation time according to EN 374.*

*Nitrile rubber (0.35 mm), chloroprene rubber (0.5 mm), butyl rubber (0.5 mm)*

*Fluoro carbon rubber (0.5 mm), polyvinyl chloride (PVC; 0.5 mm)*

*Eye protection:*

*Tightly fitting safety goggles (EN 166).*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

*No special measures required.*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

*Form:* powder

*Color:* red

*Odor:* odorless

*Odor threshold:*  
not relevant

*pH-Value:*  
not applicable

*Melting temperature:* > 800°C

*Boiling temperature:*  
not applicable

*Flash point:*  
not available

*Evaporation rate:*  
not applicable

*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.

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*Density:* 2.4 - 2.6 g/cm<sup>3</sup>

*Solubility in water:* insoluble

*Coefficient of variation (n-Octanol/Water):*  
not determined

*Auto-ignition temperature:*  
not applicable

*Decomposition temperature:*  
not applicable

*Viscosity, dynamic:*  
not applicable

*Explosive properties:*

*Oxidizing properties:*

*Bulk density:*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*Stable if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Unknown.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Protect from humidity and heat.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*Strong acids.*

### 10.6. Hazardous Decomposition Products

### 10.7. Further Information

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## 11. Toxicological Information

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## 11. 1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

*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 relevant data found.*

*Mutagenicity:*

*No relevant data found.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No relevant data found.*

*Specific target organ toxicity (STOT):*

*Single exposure: no information available.*

*Repeated exposure: no information available.*

*Aspiration hazard:*

*No risk of aspiration.*

## 11. 2. Information on other Hazards

*No further information available.*

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## 12. Ecological Information

### 12. 1. Aquatic Toxicity

*No toxicity expected.*

*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

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*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 bioaccumulation expected.*

**12.4. Mobility**

*No information available.*

**12.5. Results of PBT- und vPvP Assessment**

*Not classified as PBT substance / Not classified as a vPvB substance.*

**12.6. Endocrine Disrupting Properties**

*No data available.*

**12.7. Other Adverse Effects**

*Water hazard class:*

*Not hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Do not let product enter waterways or sewage system.*

*AOX Value:*

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**13. Disposal Considerations**

**13.1. Waste Treatment Methods**

*Product:*

*Dispose of according to official national and local regulations.  
Reuse, when possible.*

*European Waste Code (EWC):*

*101112 - WASTES FROM THERMAL PROCESSES; wastes from manufacture of glass and glass products; waste glass other than those mentioned in 10 11 11*

*Uncleaned packaging:*

*Contaminated packaging must be treated like the substance.*

*Waste Code No.:*

*150106 - Mixed packaging.*

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**14. Transport Information**

**14.1. UN Number**

*ADR, IMDG, IATA*

**14.2. UN Proper Shipping Name**

*ADR/RID:*

*No hazardous goods according to ADR / DOT (US) (land transportation).*

*IMDG/IATA:*

*Not hazardous goods*

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## 14.3. Transport Hazard Classes

ADR Class:

*not applicable*

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

*not applicable*

Hazard no.:

EmS No.:

IATA Class:

*not applicable*

Hazard no.:

## 14.4. Packaging Group

ADR/RID:

*not applicable*

IMDG:

IATA:

## 14.5. Environmental Hazards

*no*

## 14.6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

## 14.7. Maritime Transport in Bulk according to IMO Instruments

## 14.8. Further Information

*Do not store together with foodstuffs.*

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## 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)*

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, Registered no. 23 (Cadmium oxide)*

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 63 (Lead oxide)*

Technical instructions on air quality:

*5.2.1. Total dust, including fine dust at m >= 0.2 kg/h, conc. 20*

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*mg/m<sup>3</sup>, resp. at ≤ 0.2 mg/h, konz. 0.15 mg/m<sup>3</sup>: not determined*

### 15.2. Chemical Safety Assessment

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

### 15.3. Further Information

*VOC Content: 0 %*

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### 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.*