

Material Safety Data Sheet

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



58271 Bole, Orange-Red

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Revised edition: 05.03.2013

Version: 1

Printed: 05.05.2014

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

1.1. Product Identifier

Product Name: Bole, Orange-Red

Article No.: 58271

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

Identified uses:

*In vitro diagnostic
Industrial application.
Filler or pigment
Ceramic, glazes, glass, mudbrick building*

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

EMail: info@kremer-pigmente.de

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

H372

Cat.:

*Specific target organ toxicity (repeated exposure), category 1
Causes damage to organs through prolonged or repeated exposure.*

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

Harmful (Xn)

R20

Harmful by inhalation.

R48

Danger of serious damage to health by prolonged exposure.

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

Classification according to EC
Regulation 1272/2008

Hazard designation:



GHS08-2

Signal word:

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Danger

Hazard designation:

H372 Causes damage to organs through prolonged or repeated exposure.

Safety designation:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P285 In case of inadequate ventilation wear respiratory protection.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2.3. Other Hazards

Product contains more than 10% quartz (respirable). Depending on the use and handling (e.g. grinding, drying) the formation of airborne crystalline silicium dioxid (quartz, cristobalite) is possible. Frequent or repeated inhalation of airborne quartz dust can cause silicosis. The symptoms of silicosis are coughing and breathlessness. No PBT or vPBT substance according to the REACH Regulation.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Kaolinite clay, aluminium-silicate-hydrate, $Al_2Si_2O_5(OH)_4$. CAS No. 9999999-99-4, EINECS 310-127-6

Hazardous Ingredients:

Quartz, Silica (SiO ₂ ; Xn; R48/20; STOT RE1, H372)	> 10 %	CAS-Nr: 14808-60-7 EINECS-Nr: 238-878-4 EC-Nr:
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Kaolinite	CAS-Nr: 1318-74-7 EINECS-Nr: 215-286-4 EC-Nr:
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Mica	CAS-Nr: 12001-26-2 EINECS-Nr: EC-Nr:
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Additional information:

Exempted from the mandatory REACH Registration (Annex V No. 7)

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Take person away from hazardous area.

After inhalation:

Supply fresh air and keep patient calm.

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After skin contact:

No special measures required.

After eye contact:

Rinse open eye for several minutes under running water. 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:

No further information available.

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

Treatment:

No further information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

No special measures required. Not combustible at normal conditions.

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Product is not flammable.

5.3. Advice for Firefighters

Protective equipment:

No special measures required.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Do not inhale dust.

6.2. Environmental Precautions

Environmental precautions:

No special measures required.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Avoid dust formation.

Clean up by moistening product to avoid dust formation or use special vacuum cleaner.

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6. 4. Reference to other Sections

For information for safe handling see Section 7.

Protective clothing, see Section 8.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Avoid formation of dust. Do not inhale dust.

Provide adequate ventilation.

Use suitable respiratory protection in case of inadequate ventilation. Handle and open container with care.

Hygienic measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Take off contaminated clothing immediately. Store working clothes separately.

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in a cool and dry place.

Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion protection:

No special measures necessary.

Storage class (VCI):

Further Information:

Further information on good handling and use of crystalline silica and products containing it are found in the guide stated in section 16.

7. 3. Specific End Use(s)

Further information:

The technical guidelines for the application of this product/mixture should be followed.

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

Follow the emission limit values for dust exposition (e.g. for total dust, airborne dust and airborne crystalline silica).

Parameters to be controlled (DE):

Parameters to be controlled (EC):

Derived No-Effect Level (DNEL):

No values available.

Predicted No-Effect Concentration (PNEC):

No values available.

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Additional Information:

8.2. Exposure Controls

Technical protective measures:

*Provide adequate ventilation/exhaust system.
Ensure adequate ventilation, especially in confined areas.*

Personal Protection

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hand protection:

Not required

Protective glove material:

Eye protection:

Recommended in case of extreme dust formation (EN 166).

Body protection:

No special protection required.

Environmental precautions:

Avoid wind-blown dispersal.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder

Color: orange - red

Odor: odorless

*Odor threshold:
No information available.*

pH-Value: 3 - 6 (100 g/l)

Melting temperature: > 1700°C

*Boiling temperature:
not determined*

*Flash point:
not flammable*

*Evaporation rate:
not applicable*

*Flammability (solid, gas):
not applicable*

Upper explosion limit:

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no information available

Lower explosion limit:

no information available

Vapor pressure:

not applicable

Vapor density:

No information available.

Density:

2.6 g/cm³

Solubility in water:

practically insoluble

Coefficient of variation (n-Octanol/Water):

not applicable

Auto-ignition temperature:

not applicable

Decomposition temperature:

No data available.

Viscosity, dynamic:

not applicable

Explosive properties:

Product does not present an explosion hazard.

Oxidizing properties:

no information available

Bulk density:

not applicable

9.2. Further Information

Solubility in solvents:

Hydrofluoric acid

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

The product is chemically stable.

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10.3. Possibility of Hazardous Reactions

None if used according to specifications.

10.4. Conditions to Avoid

Conditions to avoid:

No information available.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

No information available.

10.6. Hazardous Decomposition Products

No information available.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

No toxicological effects known.

Acute Toxicity

LD50, oral:

LD50, dermal:

LC50, inhalation:

Primary effects

Irritant effect on skin:

Non irritating

Irritant effect on eyes:

Non-irritating to eyes

Inhalation:

Non irritating.

Ingestion:

Non irritating.

Sensitization:

No sensitizing effects known.

Mutagenicity:

No mutagenic effects observed.

Reproductive toxicity:

Not considered to be toxic to reproduction.

Cancerogenity:

No data available.

Teratogenicity:

Not considered to be teratogenic.

Specific target organ toxicity (STOT):

This product contains airborne quartz powder as impurity and is

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therefore classified as STOT RE1 according to EG Regulation 1272/2008.

Additional toxicological information:

The IARC (International Agency for Research on Cancer) notes that crystalline SiO₂ which is inhaled at the working place can cause pulmonary cancer.

"Silica, some silicates, coal dust and para-aramid fibrils", IARC monograph on the evaluation of carcinogenic risk to humans, Volume 68, 1997, pp. 41-242

In June 2003 the SCOEL (EU Scientific Committee on Occupational Exposure Limits) came to the conclusion that silicosis is the major effect of inhaling respirable crystalline silicon dioxide.

Persons who already are suffering from silicosis have a higher cancer risk.

It can therefore be concluded that the risk of cancer can be reduced by avoiding silicosis (SCOEL SUM Doc 1994-final, June 2003).

12. Ecological Information

12.1. Aquatic Toxicity

No toxicity expected.

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

Weak solubility and mobility.

12.5. Results of PBT- und vPvP Assessment

Inorganic substance: does not comply with the criteria for the classification as PBT or vPvB.

12.6. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

No special effects or hazards known.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

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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:

No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel no.:

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

Not classified as environmentally hazardous.

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

14.8. Further Information

Do not store together with foodstuffs.

15. Regulatory Information

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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:

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

Exempted from the mandatory REACH Registration (Annex V No. 7)

15. 3. 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.

Sources: The specifications are based on the information of upstream suppliers.

Dioxins: The material can contain traces (part per billion, ppt) of naturally occurring types of dioxin (PCDD, PCDF) including TCDD (2,3,7,8-Tetrachlorine dibenzodioxin). The IARC has classified TCDD in the Monograph 69 (1997) as a known human carcinogen. Should this product be used for food, feed or cosmetic purposes, it is recommended to examine if the legal requirements are met, especially those of the dioxin content.