

AROMATICA

Identification of the substance /mixture and of the company /undertaking

Product identifier Tradename: AROMATICA COLLECTION

Relevant identified uses of the substance or mixture and uses advised against application of the substance / the preparation wall /floor covering, decoration and details of the supplier of the safety data sheet

Manufacturer / Supplier: Town and Country Surfaces

Hazards identification

During the firing process a very stable chemical crystal grid structure is formed. Tiles therefore are not considered as hazardous to health. However, during activities like drilling, sawing and grinding of tiles dust is generated containing crystalline silica. Inhalation of this type of dust is hazardous to health and should be avoided.

Composition /information on ingredients

Chemical characterization: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:** Not applicable

Non-hazardous components:

Tiles consist of a mixture of predominantly clay types and other naturally occurring mineral substances. After mixing with water and pressing of the tile the bisque is fired at very high temperatures. During the firing process very stable crystal grid structures are formed in which the individual chemical elements are incorporated.

Main constituents of ceramic tiles (bisque) are silicon oxide (60-70 %) and aluminium oxide (15-25 %).

Main constituents of the glazing layer are silicon oxide (approx. 50 %), aluminium oxide (approx. 10 %) and calcium oxide (approx. 10 %); furthermore the glazing layer contains small percentages of the following substances: sodium oxide, manganese oxide, iron oxide, magnesium oxide, potassium oxide and barium oxide.

First aid measures

· Description of first aid measures

· General information:

This section only applies to the handling of tiles (drilling, cutting, sawing, grinding, removal, etc.)

Firefighting measures

· Non Flammable. No special measures required

Accidental release measures

Personal precautions, protective equipment and emergency procedures

In the event of generation of large amounts of dust during processing: provide adequate ventilation; wear a respirator (type P3); clean up dust using an industrial vacuum or by damp sweeping

· **Environmental precautions:** No special measures required.

· **Methods and material for containment and cleaning up:** Pick up mechanically.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**
During occupational processing of tiles (drilling, sawing, grinding of tiles; removal of old tile layers) large amounts of dust can be generated. This dust contains silica.

Substance: Crystalline silica Occupational exposure limit: 0,075 mg/m³ Remarks: respirable dust; legally binding OEL.

The lists valid during the making were used as basis.

- **Exposure controls**
- **Personal protective equipment:**
- **Respiratory protection:**
Always use respiratory protection during sawing or grinding, in combination with local exhaust ventilation. A type P3 filtering piece is sufficient.
When not applying local exhaust ventilation or wet sawing or grinding methods, a (half or full mask) respirator with motor/filterunit (type TM3P) should be used. This is also recommended during removal of old tiles.
- **Protection of hands:** Wear cotton or leather working gloves during processing of tiles.
- **Eye protection:**
Wear safety glasses with side shields or a face shield when sawing or grinding tiles or removing old tiles. Avoid wearing contact lenses.
- **Risk management measures**
Technical measures:
Bring tiles down to size using cutting instead of sawing or grinding methods.
During sawing or grinding of tiles or removal of old tiles use local exhaust ventilation combined with collection of dust; wet sawing or grinding methods are to be preferred (sawing and grinding equipment with water supply; application of (semi) automatic removal equipment with moistening facility).

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Solid
Colour:	Different according to colouring
- **Odour:** Odourless
- **Odour threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**

Melting point/Melting range:	Not applicable.
Boiling point/Boiling range:	Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:**

Trade name: Ceramic tiles

Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· Segregation coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No further relevant information available.

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10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Contact with strong acids
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **No eye or skin irritation**

12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** Product is not soluble in water and not toxic.
- **Persistence and degradability** This product is according to previous experiences inert and non-degradable.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** Does not accumulate in organisms
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

When installing or processing tiles please take note of the following additional safety measures:

- Wear adequate working clothes
- Wear knee protection
- Wear safety shoes
- Use appropriate lifting and transporting equipment

The information and data in this Safety Data Sheet are based on current scientific and technical state of the art and are believed to be accurate at the printing date.

The information refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

MORE INFO:



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