EARP BROS

SURFACE EVOLUTION

CERAMICS
SAFETY DATA SHEET

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CERAMICS SAFETY DATA SHEET

1. IDENTIFICATION

Relevant identified uses of the material:
Ceramic material for surface applications.

Information of the supplier of the safety data sheet:
Earp Brothers Hardware Pty Ltd
26 Darling Street Carrington 2294
NSW Australia Tel. (+61) 02 4925 4500
earp.com.au

2. HAZARD IDENTIFICATION

Classification of the material:
Classification according to Directive 67/548 / CEE or directive 1999/45 / CE: Not contemplated.

Potential effects on health: Ceramic materials supplied by Earp Brothers Hardware Pty Ltd both in finish and installed do not pose any risk to health. However, the dust derived from the shaping processes (cutting, chopping, sanding, drilling, polishing or manufacturing) may contain respirable crystalline silica transported by air. Prolonged or repeated inhalation of respirable crystalline silica can cause pulmonary fibrosis, commonly known as silicosis, as well as other serious pulmonary diseases (epoc) and the appropriate considerations should be taken as described in this document.

DANGER STATEMENTS:

H372 - Causes damage to the lungs through prolonged or repeated exposure (inhalation)
H335 - May cause respiratory irritation

PREVENTATIVE MEASURES:

P202 - Do not handle the material before having read and understanding all the safety instructions.
P260 - Do not breathe the dust generated during the manufacturing process and forming of the pieces.
P264 - Thoroughly wash face and hands after handling.
P270 - Do not eat, drink or smoke during use.
P280 - Wear gloves, suitable work clothes and protective goggles.
P284 - Wear respiratory protection equipment for particles (P3).
P314 - Consult a doctor in case of discomfort.

Causes damage to organs through prolonged or repeated exposure

3. COMPOSITION INFORMATION

Ceramic materials supplied by Earp Bros may include component materials such as clay, feldspar, talc, limestone, dolomite and silica sand.

Silica sand, also known as crystalline silica (CAS 14808-60-7), constitutes less than 10% of the product by weight.

4. FIRST AID

Eye contact with dust:
Wash immediately with plenty of water for a minimum of 15 minutes. Seek medical attention immediately.

Skin contact with dust:
Wash the affected area with soap and plenty of water. Seek medical attention if adverse effects occur.

Inhalation of dust:
Move the person to fresh air. If the person has stopped breathing, administer artificial respiration and seek medical attention urgently.

Ingestion of dust:
The product in its commercialized form is inert. If large amounts have been ingested, seek medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing material: Non-flammable product (A1)

Specific hazards produced by the substance or mixture: Not applicable

Advice for firefighters: Not applicable

CERAMICS SAFETY DATA SHEET (CONT.)

6. MEASURES IN CASE OF ACCIDENTAL SPILL

Personal precautions, protective equipment and emergency procedures: Avoid generating dust, Earp Bros recommends wet cutting / polishing to avoid exposure to silica dust.

Precautions related to the environment:
Not applicable

Methods and material for containment and cleaning:
See cleaning guide www.earp.com.au

References to other sections. See sections 7,8 and 13.

7. HANDLING & STORAGE

Protective measures: Avoid and reduce as much as possible the creation of dust. Use aspiration systems or respiratory protection equipment of particles. Wash hands with soap and water at the end of work. Remove clothing with traces of dust at the end of work.

Do not eat, drink or smoke in work areas.

8. PERSONAL PROTECTION & EXPOSURE CONTROL

FACE AND EYE PROTECTION:
Glasses with strong frames.

FOOT PROTECTION:
Wear protective footwear.

HAND PROTECTION:
Wear protective gloves.

RESPIRATORY PROTECTION.
Mask FFP3 according to regulation EN 143: 2001 and its revisions EN 143 / AC: 2002 and EN 143 / AC: 2005.

9. PHYSICAL & CHEMICAL PROPERTIES

General information

Appearance:	Solid, different color according to the reference
Odor:	Odorless
Melting point:	Not available
Boiling point:	Not applicable
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Solubility in water:	Insoluble
Evaporation rate:	Not applicable
Viscosity:	Not applicable
Volatility:	No VOCs

Information on health, safety and the environment

Apparent specific gravity:	2.3
PH:	Not applicable.
Solubility in water:	Insoluble.

10. STABILITY & REACTIVITY

Reactivity: Not applicable.
Chemical stability: Not applicable.
Possibility of dangerous reactions: No applicable.
Conditions that should be avoided. The formation of dust must be avoided.
Incompatible materials: Acids (eg; hydrofluoric acid)
Hazardous decomposition products: No known products.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects
Primary Routes of Exposure: None for intact tile. Inhalation and potential exposure to eyes, hands, or other body parts if contact is made with broken tile,and/or during procedures involving the cutting of tiles, and/or for operations involving the removal of installed tiles.

Acute Effects: No acute effects from exposure to intact tile are known. Working with broken or cut tile produces a potential for cuts to the hands and exposed body parts. Acute effects such as eye irritation may occur if associated with high dust operations such as drycutting tile or during the removal of installed tile. In very rare cases, symptoms of acute silicosis, a form of silicosis (a nodularpulmonary fibrosis) associated with exposure

to respirable crystalline silica, may develop following acute exposure to extremely dusty environments caused by generation of tile dust. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can arise from many other causes.

Chronic Effects: No chronic effects are known for exposure to intact tile. Long-term, continual exposure to respirable crystalline silica at or above established permissible occupational exposure limits may lead to the development of silicosis, a nodular pulmonary fibrosis (NPF). NPFs are also associated with pulmonary tuberculosis, bronchitis, emphysema, and other airway diseases. This type of chronic exposure to silica dust may also result in the development of autoimmune disorders, chronic renal disease, and other adverse health effects. Epidemiologic studies demonstrate that workers exposed to elevated silica concentrations have a significant risk of developing chronic silicosis. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can also arise from many other causes.

Potential Adverse Interactions: Silicosis may be complicated by severe mycobacterial or fungal infections and result in tuberculosis (TB). Epidemiologic studies have established that silicosis is a risk factor for developing TB. Any existing respiratory or pulmonary diseases may be complicated by exposure to respirable crystalline silica. Smoking may increase the risk of adverse effects if done in conjunction with occupational exposure to silica dust at or above permissible exposure limits.

Carcinogen Status: Respirable crystalline silica is classified by the International Agency for Research on Cancer (IRAC) as a Group I Carcinogen.

12. ECOLOGICAL INFORMATION

Not applicable.

13. DISPOSAL CONSIDERATIONS

The waste can be assimilated to inert construction waste, so it must be removed by the authorized manager for this type of waste.

14. TRANSPORTATION INFORMATION

Ceramic material is not restricted in any of the following categories:
Transport of dangerous goods (adr).
International transport of dangerous goods by rail (rid).
Maritime transport (imo).
Air transport (icao / iata).

15. REGULATORY INFORMATION

This Safety Data Sheet (SDS) was prepared on 4/3/2019 by Earp Brothers Hardware Pty Ltd in accordance with Safe Work Australia's 'Model Code of Practice':

https://www.safeworkaustralia.gov.au/law-and-regulation#the-model-whs-laws

16. OTHER INFORMATION

Always check with Earp Brothers Hardware Pty Ltd before using or supplying this material for other applications, different to those previously stated. The information in this document is to our knowledge up-to-date and accurate however, we cannot guarantee the recommendations or suggestions herein, as the material conditions of use are beyond our control. In addition, the contents of this safety data sheet must not be interpreted as a recommendation to use any product in violation of the laws, safety practices or patents in force on any material or its use. It is the responsibility of the recipient of our material to check the corresponding rules and regulations. Under no circumstances does the data contained in this Safety Data Sheet constitute a guarantee or warranty of specific properties or create any contractual relationship.