

MATERIAL SAFETY DATA SHEET

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Empire
Glazed Tile / Technical Tile
Updated July 12, 2010

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Glazed Tile / Technical Tile

Product use: This product uses a variety of aggregate components mixed together in a designed configuration. After milling the ingredients, forming and glazing these tiles are fired at 1220°C to become a finished product.

Company Identification: ILVA SA

Parque Industrial Pilar,
Ruta 8 KM. 60, Buenos
Aires, Argentina
+0054 (02322) 529000 Customer Service, Product Information:
www.ilva.com.ar

2. COMPOSITION / INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>Percent</u>	<u>CAS Number</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Clay	45 – 65%	N.E.	N.E.	N.E.
Feldspar	30 – 45%	68476-25-5	0.025 mg/m ³	10 mg/m ³
Recovered Tile Material	0 – 20%	N.E.	0.025 mg/m ³	10 mg/m ³
Pigment	0 – 5%	N.E.	N.E.	N.E.

Tile products are mixtures of naturally occurring minerals that have been mixed with water and cured. Tiles are manufactured in various shapes, sizes, and colors. These tiles do not contain asbestos. Under normal conditions these products do not release hazardous materials after installation and are not considered hazardous waste should disposal be necessary.

The tiles are odorless, stable, nonflammable, and pose no immediate hazard to health. However, respiratory, hand and eye protection may be needed to prevent excess exposure to airborne particulates if dust is produced by cutting tiles or if dust is produced by any other operation, including removal.

Crystalline Silica as quartz CAS# 14808-60-7

Airborne Exposure Limits: Silica Dust

	OSHA PEL	ACGIH TLV
Respirable Fraction	10 mg/m ³	0.025 mg/m ³

California Prop 65: This product does contain ingredients which are known to the state of California to cause cancer, birth defects, or other reproductive harm. Crystalline Silica as quartz CAS# 14808-60-7

HAZARDS DISCLOSURE: This product contains known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains known hazardous materials.

This product does not contain asbestos or polychlorinated biphenyls.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW – Non-hazardous PRODUCT as a intact tile.

NFPA Rating: Health - 0, Flammability - 0, Reactivity - 0

NFPA Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme).

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

Inhalation: This product may represent an inhalation hazard during cutting or removal with creation of respirable dust.

Ingestion: This product does not represent an ingestion hazard.

Skin Contact: Dust maybe irritating to skin

Eye Contact: Dust may cause irritation

Chronic Exposure: No chronic effects for intact tiles. Long-term, continual exposure to Respirable crystalline silica at or above allowable occupational exposure limits may lead to the development of silicosis.

Aggravation of Pre-existing Conditions: Pre-existing skin and respiratory problems.

Carcinogenicity: Silica is listed by the NTP, IARC, or regulated by OSHA as a carcinogen.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air if exposed to large amounts of dust.

Ingestion: Not expected as a result of this product.

Skin Contact: Wash thoroughly after working with tiles.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point (PMCC): Not Flammable

Auto-ignition temperature: Not established

Flammable limits in air % by volume: LEL: Not established UEL: Not established

Explosion: N/A

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Fire Fighting Procedures: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Pick-up for re-use or recycle.

7. HANDLING AND STORAGE

Storage Temperature (min/max): 50°F (10°C.) to 100°F (38°C)

Shelf Life: N/A

HANDLING (PERSONNEL): Handle in accordance with good hygiene and safety procedures.

STORAGE PRECAUTIONS: None Established.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits:

Airborne Exposure Limits: Silica Dust

Respirable Fraction

OSHA PEL
10 mg/m³

ACGIH TLV
0.025 mg/m³

Ventilation System: Always work in a well ventilated area.

Personal Respirators (NIOSH Approved): None required if dust is below permissible exposure levels.

Skin Protection: Observe good industrial hygiene practices.

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Eye Protection: Always wear safety glasses when working with this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Solid
ODOR: Odorless
SOLUBILITY IN WATER:
MELTING/FREEZING POINT: N/A
EVAPORATION RATE (BuAc=1): N/A
AUTOIGNITION TEMPERATURE: N/A
% VOLATILES BY VOLUME @ 21°C (70°F): N/A
VOLATILE ORGANIC COMPOUNDS (VOC #/gal): N/A

COLOR: Varies
SPECIFIC GRAVITY: N/A
PH: N/A
BOILING POINT: N/A
VISCOSITY: N/A
VAPOR DENSITY (Air=1): N/A
VAPOR PRESSURE (mm Hg): N/A

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: None
Hazardous Polymerization: Will not occur.
Incompatibilities: None known.
Conditions to Avoid: None known.

11. TOXICOLOGICAL INFORMATION

Toxicity Data:

<u>Product Name</u>	<u>Oral LD50, Rat</u>	<u>Dermal</u>	<u>Inhalation</u>
Tile (Contains Silica)	>22,500 mg/kg	N/A	N/A

Cancer Lists

<u>Ingredient</u>	---NTP Carcinogen---		<u>IARC Category</u>
	<u>Known</u>	<u>Anticipated</u>	
Silica	YES	YES	A4

12. ECOLOGICAL INFORMATION

Environmental Fate: No Data Available

Environmental Toxicity: No Data Available

13. DISPOSAL CONSIDERATIONS

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORTATION INFORMATION

Domestic (Land, D.O.T.) International (Water, I.M.O. & Air, I.C.A.O.)

SHIPPING NAME:	Non-Regulated Material	UN NUMBER:	N/A
PRODUCT LABEL:	Glazed/Technical Tile	IMO CLASS:	N/A
ADR:	N/A	PACKING GROUP:	N/A
D.O.T. HAZARD CLASS:	N/A	Max container size for Air Shipments:	N/A
ERG #:	N/A		

15. REGULATORY INFORMATION

Federal, State & International Regulations

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Ingredient	<u>SARA 302</u>		<u>List</u>	<u>-SARA 313-</u>	<u>CERCLA</u>	<u>RCRA</u>	<u>TSCA</u>
	<u>RQ</u>	<u>TPQ</u>		<u>Chemical Catalog</u>		<u>261.33</u>	<u>8(d)</u>
Glazed/Technical Tile	NO	NO	NO	NO	NO	NO	NO

Chemical Weapons Convention: No **TSCA 12(b):** No **CDTA:** No

SARA 311/312: Acute: No; Chronic: No; Fire: NO; Pressure: NO; Reactivity: NO (Mixture / Liquid)

Australian Hazchem Code: None allocated **Poison Schedule:** None allocated.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: ENCS (Japan), Korea, Australia, China (Draft), PICCS (Philippines), Japan (ENCS).

16. OTHER INFORMATION

Prepared By: Paul Eigbrett;
Supersedes Date: New

Approval Date: July 12, 2010

This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2004).

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