

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/12/2006

Reviewed on 06/12/2006

1 Identification of substance

- **Product details**

- **Trade name:** Colour~Hard™ - Terra Cotta

- **Article number:** CH119P (pail), CH119B (bag)

- **Application of the substance / the preparation**

- **Manufacturer/Supplier:**

Legacy™ Decorative Concrete Systems, Inc.
3421 Lumber Ln.
Springfield, IL 62707

Tel.: (866) 684-9394

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Call Legacy 24 hours a day at 866-684-9394.

- **Information department:** Environmental, Health, and Safety department.

2 Composition/Data on components

- **Chemical characterization**

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

- **Dangerous components:**

14808-60-7	Quartz (SiO ₂)	25-50%
65997-15-1	Cement, portland, chemicals	10-25%
7778-18-9	calcium sulphate, natural	≤ 2.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **SILICOSIS WARNING**

WARNING Prolonged, unprotected exposure may result in non-reversible Silicosis or Lung Cancer. All applicators / installers of Legacy Colour~Hard, concrete finishers and all on-site personnel must wear an OSHA-NIOSH approved fitted dust respirator while applying or working around Legacy Colour~Hard color hardener. Avoid contact with eyes and skin. Wear rubber gloves to protect the skin and eye goggles to protect the eyes. Before using this product completely read the Legacy Colour~Hard Technical Data Sheet and MSDS Sheet. Close container after each use. **KEEP OUT OF REACH OF CHILDREN.**

HAZARDOUS INGREDIENTS This product contains the following chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

Silica, Crystalline Quartz: OSHA PEL = 5mg/m³, ACGH-TLV = 5mg/m³, CAS NO. 65997-15-1. Repeated inhalation and prolonged exposure may result in delayed lung injury especially with those with existing reparatory ailments. Acute Silicosis may develop in a short time with heavy exposure. Silicosis can be progressive and cause death.

- **Hazard description:** Not applicable.

- **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	0	Fire = 0
PHYSICAL HAZARD	0	Reactivity = 0

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/12/2006

Reviewed on 06/12/2006

Trade name: Colour~Hard™ - Terra Cotta

(Contd. of page 1)

4 First aid measures

- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:**
Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Prevent formation of dust.
- **Information about protection against explosions and fires:** No special measures required.
- **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:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

14808-60-7 Quartz (SiO₂)

REL ()	0.05* mg/m ³
	*Respirable dust
TLV ()	(0.05 R) mg/m ³
	NIC-0.025 R

(Contd. on page 3)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/12/2006

Reviewed on 06/12/2006

Trade name: Colour~Hard™ - Terra Cotta

(Contd. of page 2)

65997-15-1 Cement, portland, chemicals

PEL ()	50 mppcf or 15*;5** mg/m ³ *Total dust **Respirable fraction
REL ()	10*; 5** mg/m ³ *Total dust **Respirable fraction
TLV ()	10 mg/m ³ (e)

7778-18-9 calcium sulphate, natural

PEL ()	15*; 5** mg/m ³ *Total dust **Respirable fraction
REL ()	10*; 5** mg/m ³ *Total dust **Respirable fraction
TLV ()	10 mg/m ³ (e)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests, no recommendation to the glove material can be given for the product.

Select the glove material upon consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

USA

(Contd. on page 4)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/12/2006

Reviewed on 06/12/2006

Trade name: Colour~Hard™ - Terra Cotta

(Contd. of page 3)

9 Physical and chemical properties

· General Information

Form:	Solid
Color:	According to product specification
Odor:	Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: > 999°C (> 1830°F)

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C (68°F):** 2.06 g/cm³

· **Solubility in / Miscibility with Water:** Soluble.

· Solvent content:

Organic solvents: 0.0 %

· **Solids content:** 100.0 %

· **Volatile Organic Compounds:** Not determined

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Irritant

13 Disposal considerations

- **Product:**
- **Recommendation:** Must not be disposed of as normal garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

(Contd. on page 5)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/12/2006

Reviewed on 06/12/2006

Trade name: Colour~Hard™ - Terra Cotta

(Contd. of page 4)

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Limited Quantity Exemption:** No Limited Quantity exemption applies for this shipping class.
- **U.S. Domestic Ground Shipments:** Same as listed for Standard Shipments above.
- **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:** Same as listed for Standard Shipments above.
- **Emergency Response Guide (ERG) Number:** Not determined
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulations

· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

1344-28-1	aluminium oxide	£1%
7440-02-0	nickel	£0.01%
7440-38-2	arsenic	£0.01%
7439-92-1	lead	£0.01%
7440-43-9	cadmium (non-pyrophoric)	£0.01%
7439-97-6	mercury	£0.01%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**· **Chemicals known to the State of California (Prop. 65) to cause cancer:**14808-60-7 Quartz (SiO₂)· **Chemicals known to the State of California (Prop. 65) to cause reproductive toxicity:**

None of the ingredients is listed.

(Contd. on page 6)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/12/2006

Reviewed on 06/12/2006

Trade name: Colour~Hard™ - Terra Cotta

(Contd. of page 5)

· **Cancerogenity categories**· **EPA (Environmental Protection Agency)**

7440-38-2	arsenic	A
7439-92-1	lead	B2
7440-43-9	cadmium (non-pyrophoric)	B1
7439-97-6	mercury	D

· **IARC (International Agency for Research on Cancer)**

14808-60-7	Quartz (SiO ₂)	1
1309-37-1	diiron trioxide	3
13463-67-7	titanium dioxide	3
7631-86-9	silicon dioxide, chemically prepared	3
7440-02-0	nickel	2B
7440-38-2	arsenic	1
7439-92-1	lead	2B
7440-43-9	cadmium (non-pyrophoric)	1
7439-97-6	mercury	3

· **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
7440-02-0	nickel	R
7440-38-2	arsenic	K
7440-43-9	cadmium (non-pyrophoric)	K

· **TLV (Threshold Limit Value established by ACGIH)**

14808-60-7	Quartz (SiO ₂)	A2
1344-28-1	aluminium oxide	A4
1309-37-1	diiron trioxide	A4
13463-67-7	titanium dioxide	A4
7440-02-0	nickel	A5
7440-38-2	arsenic	A1
7439-92-1	lead	A3
7440-43-9	cadmium (non-pyrophoric)	A2
7439-97-6	mercury	A4

· **MAK (German Maximum Workplace Concentration)**

14808-60-7	Quartz (SiO ₂)	1
1344-28-1	aluminium oxide	2
7440-02-0	nickel	1
7440-38-2	arsenic	1
7440-43-9	cadmium (non-pyrophoric)	2
7439-97-6	mercury	3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	Quartz (SiO ₂)	
13463-67-7	titanium dioxide	
7440-02-0	nickel	

(Contd. on page 7)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/12/2006

Reviewed on 06/12/2006

Trade name: Colour~Hard™ - Terra Cotta

(Contd. of page 6)

7440-38-2	arsenic
7440-43-9	cadmium (non-pyrophoric)
· OSHA-Ca (Occupational Safety & Health Administration)	
7440-38-2	arsenic
7440-43-9	cadmium (non-pyrophoric)

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols: Xi Irritant

· Risk phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitisation by skin contact.

· Safety phrases:

22 Do not breathe dust.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of soap and water.

16 Other information

The provided 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.

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.

· Department issuing MSDS: Environmental, Health & Safety Department

· Contact: Environmental, Health & Safety Manager

USA