SAFETY DATA SHEET

1. Identification

Product identifier LATICRETE® PERMACOLOR® Grout

Other means of identification None. Recommended use Grout.

Recommended restrictions Workers (and your customers or users in the case of resale) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

LATICRETE International **Company Name**

Address 1 Laticrete Park, N

Bethany, CT 06524

(203)-393-0010 **Telephone** Contact person Steve Fine

Website www.laticrete.com

Emergency phone number Call CHEMTREC day or night

> USA/Canada - 1.800.424.9300 Mexico - 1.800.681.9531 Outside USA/Canada 1.703.527.3887

2. Hazard(s) identification

Not classified. Physical hazards

Category 2 Health hazards Skin corrosion/irritation

> Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1 Carcinogenicity Category 1A Reproductive toxicity Category 1B Specific target organ toxicity, repeated Category 2 (Lung)

exposure

Not classified. **Environmental hazards**

Label elements



Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May

cause cancer. May damage fertility or the unborn child. May cause damage to organs (Lung)

through prolonged or repeated exposure.

Precautionary statement

Obtain special instructions before use. Do not handle until all safety precautions have been read Prevention

and understood. Do not breathe dust/fume. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be

allowed out of the workplace.

IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If Response

skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

Storage Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Silica Sand	14808-60-7	55 - 65
Calcium aluminate cement	65997-16-2	20 - 30
Calcium sulfate	7778-18-9	5 - 7
Titanium dioxide	13463-67-7	0 - 8
Portland Cement	65997-15-1	2 - 4
Calcium sulfate hemihydrate	26499-65-0	1 - 2
Lithium Carbonate	554-13-2	0 - 0.25

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician

if symptoms develop or persist.

Skin contact Wash off with soap and plenty of water. If skin irritation or rash occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

Eye contact Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control

center immediately.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Rash. Coughing, Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

5. Fire-fighting measures

Suitable extinguishing media

None known.

Unsuitable extinguishing

media

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

In case of fire and/or explosion do not breathe fumes.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep upwind. Avoid formation of dust. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

LATICRETE® PERMACOLOR® Grout

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Sweep or shovel up material and place in a clearly labeled container for waste. Collect dust using a vacuum cleaner. Following product recovery, flush area with water.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Wear appropriate personal protective equipment. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dry place out of direct sunlight.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Calcium sulfate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Silica Sand (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	Form
Calcium sulfate (CAS 7778-18-9)	TWA	10 mg/m3	
Calcium sulfate hemihydrate (CAS 26499-65-0)	TWA	10 mg/m3	
Portland Cement (CAS 65997-15-1)	TWA	10 mg/m3	
Silica Sand (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Calcium sulfate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable
Calcium sulfate hemihydrate (CAS 26499-65-0)	STEL	20 mg/m3	Total dust.
	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Portland Cement (CAS 65997-15-1)	TWA	3 mg/m3	Respirable fraction.
,		10 mg/m3	Total dust.
Silica Sand (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
,		10 mg/m3	Total dust.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
Calcium sulfate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.

LATICRETE® PERMACOLOR® Grout

SDS Canada

917279 Version #: 01 Revision date: - Issue date: 11-April-2017

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Silica Sand (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
Calcium sulfate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Silica Sand (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Calcium sulfate (CAS 7778-18-9)	TWA	5 mg/m3	Respirable dust.
•		10 mg/m3	Total dust.
Calcium sulfate hemihydrate (CAS 26499-65-0)	TWA	5 mg/m3	Respirable dust.
•		10 mg/m3	Total dust.
Portland Cement (CAS 65997-15-1)	TWA	5 mg/m3	Respirable dust.
,		10 mg/m3	Total dust.
Silica Sand (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

should be monitored and controlled.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear chemical-resistant, impervious gloves.Other Wear appropriate chemical resistant clothing.

Respiratory protectionWear a dust mask if dust is generated above exposure limits. **Thermal hazards**Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

9. Physical and chemical properties

Appearance

Physical state Solid.
Form Powder.

ColorColored.OdorNot available.Odor thresholdNot available.pHNot available.

Melting point/freezing point Initial boiling point and boiling

g Not available.

range

Flash point Not flammable or combustible.

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoidContact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.

Skin contactCauses skin irritation. Prolonged contact with wet cement/mixture may cause burns.

Eye contact Causes serious eye damage. Prolonged contact with wet cement/mixture may cause burns.

Ingestion Swallowing may cause gastrointestinal irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Rash. Coughing. Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may

cause chronic effects.

Information on toxicological effects

Acute toxicity May cause respiratory irritation.

LATICRETE® PERMACOLOR® Grout
917279 Version #: 01 Revision date: - Issue date: 11-April-2017

Species Components **Test Results**

Calcium sulfate (CAS 7778-18-9)

Acute

Inhalation

LC50 Rat > 3.26 mg/l, 4 Hours

Oral

LD50 Rat > 1581 mg/kg

Lithium Carbonate (CAS 554-13-2)

Acute Inhalation

LC50 Rat > 2.17 mg/l, 4 Hours

Oral

LD50 Rat 525 mg/kg

Titanium dioxide (CAS 13463-67-7)

Acute

Inhalation

Rat LC50 3.43 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization Canada - Alberta OELs: Irritant

> Irritant Titanium dioxide (CAS 13463-67-7)

Respiratory sensitization

No data available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

May cause cancer. In 1997, IARC (the International Agency for Research on Cancer) concluded Carcinogenicity

that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in guarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer

risk..." (SCOEL SUM Doc 94-final, June 2003)

ACGIH Carcinogens

Portland Cement (CAS 65997-15-1) A4 Not classifiable as a human carcinogen.

Silica Sand (CAS 14808-60-7) A2 Suspected human carcinogen.

Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

Canada - Alberta OELs: Carcinogen category

Silica Sand (CAS 14808-60-7) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Portland Cement (CAS 65997-15-1) Not classifiable as a human carcinogen.

Silica Sand (CAS 14808-60-7) Suspected human carcinogen.

Titanium dioxide (CAS 13463-67-7) Not classifiable as a human carcinogen.

Canada - Quebec OELs: Carcinogen category

Silica Sand (CAS 14808-60-7) Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silica Sand (CAS 14808-60-7) 1 Carcinogenic to humans.

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Silica Sand (CAS 14808-60-7) Known To Be Human Carcinogen.

May damage fertility or the unborn child. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (Lung) through prolonged or repeated exposure.

Aspiration hazard Due to the physical form of the product it is not an aspiration hazard.

Chronic effects Prolonged or repeated exposure may cause lung injury, including silicosis.

Further information Inhalation of high concentrations of quartz dust can lead to the lung disease known as silicosis,

with cough and shortness of breath.

12. Ecological information

Not expected to be harmful to aquatic organisms. **Ecotoxicity**

Components **Test Results** Species

Lithium Carbonate (CAS 554-13-2)

Aquatic

Fish LC50 Mummichog (Fundulus heteroclitus) 8.1 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available for this product. The product is not mobile in soil. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal instructions**

Do not contaminate ponds, waterways or ditches with chemical or used container.

Local disposal regulations

Dispose of in accordance with local regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

This product has been classified in accordance with the hazard criteria of the HPR and the SDS Canadian regulations

contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

LATICRETE® PERMACOLOR® Grout 7/8

917279 Version #: 01 Revision date: -Issue date: 11-April-2017

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Calcium sulfate (CAS 7778-18-9)

Calcium sulfate hemihydrate (CAS 26499-65-0)

Inventory name

Domestic Substances List (DSL)

Non-Domestic Substances List (NDSL)

International Inventories

Australia

Canada

Canada

Country(s) or region

China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Australian Inventory of Chemical Substances (AICS)

Toxic Substances Control Act (TSCA) Inventory

16. Other information

Issue date 11-April-2017

Revision date Version # 01

United States & Puerto Rico

References HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS)

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Issue date: 11-April-2017

917279 Version #: 01 Revision date: -

On inventory (yes/no)*

Yes

Yes

No

Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).