

SAFETY DATA SHEET

1. Identification

Product identifier LATICRETE PERMACOLOR® Select

Other means of identification None.

Recommended use of the chemical and restrictions on use

Recommended use Grout.

Restrictions on use 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.

Details of manufacturer or importer

Manufacturer

Company name

Address

LATICRETE International
1 Laticrete Park, N
Bethany, CT 06524

Telephone (203)-393-0010
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

Supplier

Company name LATICRETE Australia

Address P.O. Box 508

Virginia Business Mail Centre

29 Telford Street VIRGINIA QLD 4014

Australia

Telephone (61) (7) 3865-1599
Website www.laticrete.com
Emergency phone number 1.703.527.3887

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

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

repeated exposure

Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s)

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Signal word Danger

Hazard Statement(s) Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May

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

Precautionary Statement(s)

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

and understood. Use personal protective equipment as required. Do not breathe dust/fume. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

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

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 CENTRE or

doctor/physician.

Storage Store locked up.

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

Other hazards which do not result in classification

None known.

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Silica Sand	14808-60-7	50 - 55
Calcium aluminate cement	65997-16-2	20 - 30
Calcium sulphate	7778-18-9	5 - 7
Titanium dioxide	13463-67-7	0 - 8
Portland Cement	65997-15-1	2 - 4
Dolomite	16389-88-1	1 - 4
Calcium sulfate hemihydrate	26499-65-0	1 - 2
Sodium aluminium sulfosilicate	57455-37-5	0 - 2
Iron oxide	1309-37-1	0 - 1
Lithium Carbonate	554-13-2	0.15-0.25

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

Description of necessary 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

centre immediately.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Personal protection for first-aid

responders

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.

Symptoms caused by exposure Rash. Coughing. Irritant effects. Permanent eye damage including blindness could result.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged

exposure may cause chronic effects.

Medical attention and special

treatment

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

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire

fighters

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.

Not available. **Hazchem Code**

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep upwind. Avoid formation of dust. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation.

Do not touch damaged containers or spilled material unless wearing appropriate protective

For emergency responders

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

Environmental precautions 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.

7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Minimise 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 and personal protection

Follow standard monitoring procedures. **Control parameters**

Occupational exposure limits

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Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Туре	Value	Form
Calcium sulphate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable dust.
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Fume.
Portland Cement (CAS 65997-15-1)	TWA	10 mg/m3	Inhalable dust.
Silica Sand (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Inhalable dust.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational **Environment)**

Components **Type Form** Value

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Calcium sulphate (CAS 7778-18-9) Iron oxide (CAS 1309-37-1) Portland Cement (CAS 65997-15-1)

TWA TWA TWA

5 mg/m3 10 mg/m3

10 mg/m3

Fume. Inspirable dust.

Inspirable dust.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Environment)			
Components	Туре	Value	Form
Silica Sand (CAS	TWA	0.1 mg/m3	
14808-60-7) Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Inspirable dust.
ACGIH			
Components	Туре	Value	Form
Sodium aluminium sulfosilicate (CAS 57455-37-5)	TWA	3 mg/m3	Respirable particles
US. ACGIH Threshold Limit	Values	10 mg/m3	Inhalable particles
Components	Туре	Value	Form
Calcium sulphate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.
Iron oxide (CAS 1309-37-1) Portland Cement (CAS 65997-15-1)	TWA TWA	5 mg/m3 1 mg/m3	Respirable fraction. 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	
UK. EH40 Workplace Expos	ure Limits (WELs)		
Components	Туре	Value	Form
Iron oxide (CAS 1309-37-1)	STEL	10 mg/m3	Fume.
11011 0xide (0A0 1309-31-1)	TWA	5 mg/m3 4 mg/m3 10 mg/m3	Fume. Respirable. Inhalable
Portland Cement (CAS 65997-15-1)	TWA	4 mg/m3	Respirable dust.
Silica Sand (CAS 14808-60-7)	TWA	10 mg/m3 0.1 mg/m3	Inhalable dust. Respirable.
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable.
Germany. DFG MAK List (ad in the Work Area (DFG)	dvisory OELs). Commission for the	10 mg/m3 Investigation of Health Hazard	Inhalable s of Chemical Compou
Components	Туре	Value	Form
Calcium sulphate (CAS 7778-18-9)	TWA	4 mg/m3	Inhalable fraction.
		1.5 mg/m3	Respirable fraction.
ogical limit values	No biological exposure limits noted	• ,	
osure guidelines	Occupational exposure to nuisance should be monitored and controlled.	dust (total and respirable) and re	spirable crystalline silica
ropriate engineering	controls		ene Au

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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, for example personal protective equipment (PPE)

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

Skin protection

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

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

Hygiene measures 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

Solid. Physical state **Form** Powder. Colored. Colour Not available. Odour Not available. **Odour threshold** рΗ Not available. Not available. Melting point/freezing point Not available. Initial boiling point and boiling range

Not flammable or combustible. Flash point

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

Flammability limit - lower

(%)

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper

(%)

Not available.

Not available. Vapour pressure Not available. Vapour density Not available. Relative density

Solubility(ies)

Insoluble Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition** temperature Not available. Not available. **Viscosity**

10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability**

Possibility of hazardous

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reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidising agents.

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Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on possible routes of exposure

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

Skin contact Causes 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 exposure Rash. Coughing. Irritant effects. Permanent eye damage including blindness could result.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged

exposure may cause chronic effects.

Acute toxicity May cause respiratory irritation.

Components Species Test results

Lithium Carbonate (CAS 554-13-2)

Acute

Inhalation

LC50 Rat > 2.17 mg/l, 4 Hours

Oral

LD50 Rat 525 mg/kg

Sodium aluminium sulfosilicate (CAS 57455-37-5)

Acute

Dermal

LD50 Rabbit > 3000 mg/kg

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Respiratory sensitisation No data available.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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

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 quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer

3 Not classifiable as to carcinogenicity to humans.

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

ACGIH Carcinogens

Iron oxide (CAS 1309-37-1)

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Iron oxide (CAS 1309-37-1) Silica Sand (CAS 14808-60-7)

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

Reproductive toxicity This Specific target organ toxicity -

This product is not expected to cause reproductive or developmental effects.

1 Carcinogenic to humans.

single exposure

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Not classified.

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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.

Other 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

Ecotoxicity Not expected to be harmful to aquatic organisms.

Components Species Test results

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.

Mobility in soil The product is insoluble in water and will sediment in water systems.

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

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

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

Residual waste 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).

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

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

emptied.

14. Transport information

ADG

Not regulated as dangerous goods.

RID

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

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

the IBC Code

15. Regulatory information

Safety, health and environmental regulations

National regulations This Safety Data Sheet was prepared in accordance with the Australia National Code of Practice

for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix C

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D

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Poisons schedule number not allocated. Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

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Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Iron oxide (CAS 1309-37-1)

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Iron oxide (CAS 1309-37-1)

Australia Medicines & Poisons Schedule 5

Iron oxide (CAS 1309-37-1)

applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

for human use for injection

regulation for relevance.

for the treatment of animals (excluding up to 1 per cent of iron oxides when present as an excipient): in other [unspecified] preparations Exception may apply, see the regulation for relevance.

for the treatment of animals (excluding up to 1 per cent of iron oxides when present as an excipient): in preparations for injection Exception may apply, see the regulation for relevance. in garden preparations Exception may apply, see the regulation for relevance.

Australia Medicines & Poisons Schedule 6

Iron oxide (CAS 1309-37-1)

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

Calcium aluminate cement (CAS 65997-16-2)

Calcium sulphate (CAS 7778-18-9)

Dolomite (CAS 16389-88-1)

Iron oxide (CAS 1309-37-1)

Portland Cement (CAS 65997-15-1) Silica Sand (CAS 14808-60-7)

Titanium dioxide (CAS 13463-67-7)

1000 - 9999 TONNES See the regulation for additional

for the treatment of animals Exception may apply, see the

information. 1000 - 9999 TONNES See the regulation for

additional information.

1000 - 9999 TONNES See the regulation for

additional information.

100000 - 999999 TONNES See the regulation for additional information.

> 1000000 TONNES See the regulation for additional information.

1000 - 9999 TONNES See the regulation for

additional information.

100000 - 999999 TONNES See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

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Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

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Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

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Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed

Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Calcium sulphate (CAS 7778-18-9)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

16. Other information

Issue date 18-March-2015

Revision date -

References HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS)

Disclaimer The information in this (M)SDS was obtained from sources which we believe are reliable but

cannot guarantee. Additionally, your use of this information is beyond our control and may be beyond our knowledge. Therefore, the information is provided without any representation or

warranty express or implied.

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).

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