



MSDS

Material Safety Data Sheet

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Section 1: Identification of the substance/mixture and of the company/undertaking

Product Name: FlatFloors LS-4000

Product Code: FlatFloors LS-4000

FlatFloors Inc.

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Calgary Alberta
T2G 4V6

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Phone: 1-888-800-4630

Chemtrec Global: 1-703-527-3887

Section 2: Hazards Identification

GHS Ratings:

Oral Toxicity Skin corrosive
Eye corrosive
Skin sensitizer Carcinogen

GHS Hazards:

H302 H314 H317 H318 H350

GHS Precautions

P201 P202 P260 P261 P264 P270 P272 P280 P281 P310 P321 P330 P363 P301+P312

Acute Tox. 4 1C

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Oral>300+<=2000mg/kg

- Destruction of dermal tissue: Exposure < 4 hours
Observation < 14 days, visible necrosis in at least one animal Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5 Skin sensitizer
- Known Human Carcinogen Based on human evidence
- Harmful if swallowed
- Causes severe skin burns and eye damage May cause an allergic skin reaction Causes serious eye damage
- May cause cancer
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Do not breathe dust/fume/gas/mist/vapours/spray
- Avoid breathing dust/fume/gas/mist/vapours/spray
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves/protective clothing/eye protection/face protection
- Use personal protective equipment as required
- Specific treatment, see supplemental first aid information
- Wash contaminated clothing before reuse
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Immediately call a POISON CENTER or doctor/physician
- Rinse mouth

P301+P330+P331 P302+P352 P303+P361+P353
 P304+P340
 P305+P351+P338
 P308+P313 P333+P313 P405 P501

- Signal Word: Danger
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- IF ON SKIN: Wash with soap and water
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

- IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
- IF exposed or concerned: Get medical advice/attention
- If skin irritation or a rash occurs: Get medical advice/attention
- Store locked up
- Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

Section 3: Composition/Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Quartz	14808-60-7	40.00% - 50.00%
Calcium Sulfate Hemihydrate	26499-65-0	30.00% - 40.00%
Limestone	1317-65-3	10.00% - 20.00%
Portland cement	65997-15-1	5.00% - 10.00%

Section 4: First Aid Measures

4.1 Description of First Aid Measures

After Inhalation: Supply fresh air. If required, provide artificial respiration by qualified medical personnel. Keep patient warm. Consult doctor if symptoms persist.

After Eye Contact: Remove contact lens if worn. Rinse opened eye for 20 to 30 minutes under running water. If symptoms persist, consult a doctor.

After Skin Contact: Remove all contaminated clothing. Immediately wash affected skin with lukewarm water and soap, rinse thoroughly (20 min.). If skin irritation continues, consult a doctor.

After Swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting. Call for medical help immediately.

Notes to Physician: Treat symptomatically

Section 5: Firefighting Measures

Flash Point: 998 C (1,828 F) LEL: UEL:

5.1 Flammable Limits

Not flammable under normal conditions. Contact with water may cause hydration, and formation of caustic alkaline material.

5.2 Extinguishing Media

- Dry Chemical
- Alcohol Resistant Foam
- Carbon dioxide
- Do not use water

5.3 Special Hazards Arising from the Substance of Mixture

Formation of toxic gases is possible during heating or in case of fire.

5.4 Hazardous Combustion Products

Carbon oxides Sulphur Oxides Calcium Oxide Aldehydes

5.5 Advice for Firefighters

Wear self-contained respiratory protective device and other proper protective equipment.

5.6 Fire Damage

Dispose of fire debris and contaminated fire fighting media in accordance with official regulations

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Avoid dust formation
- Do not breathe dust
- Avoid contact with skin, eyes and clothing
- Remove all non-essential people from the affected area.
- Ensure adequate ventilation
- Wear protective equipment

6.2 Environmental Precautions

- Do not allow to enter sewers/surface or ground water.
- Prevent seepage into sewage system, workpits and cellars.

6.3 Methods and Materials for Containment and Cleaning Up:

- Ensure adequate ventilation.
- Pick up and arrange disposal without creating dust.
- Dispose of the collected material according to regulations.

6.4 Reference to Other Sections

- For personal protection see Section 8
- For disposal information see Section 13.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

- Avoid formation of respirable particles
- Do not breath vapours/dust
- Do not get in eyes, on skin, or on clothing
- Ensure good ventilation/exhaustions at the workplace
- Make sure that all applicable workplace limits are observed.

7.2 Conditions for Safe Storage, Including any Incompatibilities

- Store in cool, dry conditions in well sealed receptacles
Keep receptacle tightly sealed. Store in dry conditions. Protect from humidity and water Storage temperature 10 - 50 °C

- Do not store together with oxidizing and acidic materials.
- Requirements to be Met by Storerooms and Receptacles: Observe all local and national regulations for storage of water polluting products.

7.3 Specific End Use(s)

No further relevant information available.

Section 8: Exposure controls/personal protection

8.1 Control Parameters

Ingredients with limit values that require monitoring at the workplace:

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Quartz 14808-60-7	Not Established	0.025 mg/m ³ TWA (respirable fraction)	NIOSH: 0.05 mg/m ³ TWA (respirable dust)
Calcium Sulfate Hemihydrate 26499-65-0	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	Not Established	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Limestone 1317-65-3	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	Not Established	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Portland cement 65997-15-1	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	1 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)

Additional Information: The lists that were valid during the creation were used as a basis.

8.2 General Protective and Hygienic Measures

The usual precautionary measures are to be adhered to when handling chemicals.

- Do not eat, drink, smoke or sniff while working
- Keep away 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

8.3 Personal Protective Equipment

Eye Protection: Safety glasses with side shields, goggles preferred.

Respiratory Protection: Use suitable respirator protective device in case of insufficient ventilation, required if TLV exceeded. Use suitable respiratory protective device when dust and fumes is formed. NIOSH/MSHA respirator is advised.

Protection of Hands: Protective gloves: to avoid skin problems, the glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Recommended glove material: Neoprene, butyl rubber gloves, note: the selection of the suitable gloves does not only depend on the material, but also on the further marks of quality and varies from manufacturer to manufacturer several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Protective gloves should be replaced at the first signs of wear. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Skin and Body Protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. An eyewash and safety shower stations should be available in the work area.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance: Gray Powder pH: 10+ Flammability: Non Flammable	Odor: None Specific Gravity (SG) 2.889
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Section 10: Stability and Reactivity

10.1 Reactivity

Stable under recommended storage conditions. Interaction with water may cause hydration and formation of alkaline material. No decomposition if stored and applied as directed.

10.2 Chemical Stability

No decomposition if stored and applied as directed.

10.3 Possibility of Hazardous Reactions

None known

Mixture Toxicity
Oral Toxicity LD50: 1,162mg/kg

Component Toxicity

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

CAS Number 14808-60-7
Description Quartz
% Weight 40 to 50%
Carcinogen Rating

Quartz:
NIOSH: potential occupational carcinogen
IARC: Human carcinogen
OSHA: listed

Routes of Entry: No data available

Target Organs: Eyes Skin Respiratory System Effects of Overexposure

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

Section 12: Ecological Information

12.1 Persistence and Degradability

Product: No further relevant information available

12.2 Bioaccumulative Potential

Product: No further relevant information available

12.3 Mobility in Soil

Product: Distribution among environmental compartments: No further relevant information available.

Additional Ecological Information: German Hazard Water Class NWG. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.4 Results of PBT and vPvB Assessment

Assessment: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.5 Other Adverse Effects

Product: No further relevant information available

12.6 Toxicity

Component Ecotoxicity

Section 13: Disposal Considerations

13.1 Waste Treatment Methods

Product: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with the chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company. Send to a licensed waste management company.

Contaminated Packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

Section 14: Transport Information

14.1 UN Number

None - Not Regulated

Agency Proper Shipping Name UN Number Packing Group Hazard Class - Not Regulated

Section 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Prop 65 - Chemicals Known to Cause Developmental Toxicity - None
Prop 65 - Chemicals Known to Cause Cancer: 14808-60-7 Quartz - None
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities - None
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs - None
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs - None
U.S. - CERCLA/SARA - Section 313 - Emission Reporting - None
TSCA (Toxic Substances Control Act) - None

Country

USA Canada

EU Risk Phrases Safety Phrase - None

Regulation

Inventory - United States - Section 8(b) Inventory (TSCA) DSL (Canadian Domestic Substance List)

All Components Listed

Yes Yes

Section 16: Other Information

We believe the information contained in this SDS is correct, however, because the material may be used under conditions over which we have no control, we give no warranty and assume no responsibility for any damage to person, property or business arising from such use. It is the responsibility of the user to ensure it is properly used. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances. 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.