



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Spartacote Metallic Pigment
Version # 01
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Supersedes date -
CAS # Mixture
Product use Pigment.
Manufacturer information
Company Name LATICRETE International
Address 1 Laticrete Park, N
Bethany, CT 06524
Telephone (203)-393-0010
Contact person Steve Fine
Website www.laticrete.com
Emergency phone number Call ChemTel day or night
USA/Canada - 1.800.255.3924
Mexico - 1.800.099.0731
Outside USA/Canada
1.813.248.0585

2. Hazards Identification

Emergency overview CAUTION
Dust may irritate the respiratory tract, skin and eyes.

Potential health effects
Routes of exposure Skin contact. Eye contact. Ingestion. Inhalation.
Eyes Dust may irritate the eyes.
Skin May cause irritation through mechanical abrasion.
Inhalation Dust may irritate respiratory system.
Ingestion May cause discomfort if swallowed.
Target organs Respiratory system. Eyes. Skin. Lung.
Chronic effects Possible cancer hazard - may cause cancer based on animal data. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Signs and symptoms Coughing. Dust may irritate the eyes and the respiratory system.
Potential environmental effects The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Mica	12001-26-2	60 - 65
Iron oxide	1309-37-1	20 - 35
Titanium dioxide	1317-80-2	0 - 3
Chromium oxide	1308-14-1	0 - 1
Graphite	7782-42-5	0 - 1
Tin dioxide	18282-10-5	0 - 1

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

First aid procedures

Inhalation

Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort occurs.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Notes to physician

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

General advice

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.

5. Fire Fighting Measures

Flammable properties

No unusual fire or explosion hazards noted.

Extinguishing media

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

None known.

Protection of firefighters

Protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Explosion data

Sensitivity to static discharge

Not sensitive.

Sensitivity to mechanical impact

Not sensitive.

Hazardous combustion products

No hazardous decomposition products are known.

6. Accidental Release Measures

Personal precautions

Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate personal protective equipment. For personal protection, see Section 8 of the MSDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods for cleaning up

Should not be released into the environment. Do not vacuum clean unless vacuum cleaners are equipped with HEPA filter. Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the MSDS.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Storage

Store locked up. Store in a cool, dry place out of direct sunlight.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Chromium oxide (CAS 1308-14-1)	TWA	0.5 mg/m ³	
Graphite (CAS 7782-42-5)	TWA	2 mg/m ³	Respirable fraction.
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m ³	Respirable fraction.
Mica (CAS 12001-26-2)	TWA	3 mg/m ³	Respirable fraction.
Tin dioxide (CAS 18282-10-5)	TWA	2 mg/m ³	
Titanium dioxide (CAS 1317-80-2)	TWA	10 mg/m ³	

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

Components	Type	Value	Form
Chromium oxide (CAS 1308-14-1)	TWA	0.5 mg/m ³	
Graphite (CAS 7782-42-5)	TWA	2 mg/m ³	Respirable.
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m ³	Respirable.
Mica (CAS 12001-26-2)	TWA	3 mg/m ³	Respirable.
Tin dioxide (CAS 18282-10-5)	TWA	2 mg/m ³	
Titanium dioxide (CAS 1317-80-2)	TWA	10 mg/m ³	

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

Components	Type	Value	Form
Chromium oxide (CAS 1308-14-1)	TWA	0.5 mg/m ³	
Graphite (CAS 7782-42-5)	TWA	2 mg/m ³	Respirable.
Iron oxide (CAS 1309-37-1)	STEL	10 mg/m ³	Fume.
	TWA	5 mg/m ³	Dust.
		5 mg/m ³	Fume.
		3 mg/m ³	Respirable fraction.
		10 mg/m ³	Total dust.
Mica (CAS 12001-26-2)	TWA	3 mg/m ³	Respirable.
Tin dioxide (CAS 18282-10-5)	TWA	2 mg/m ³	
Titanium dioxide (CAS 1317-80-2)	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Total dust.

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

Components	Type	Value	Form
Chromium oxide (CAS 1308-14-1)	TWA	0.5 mg/m ³	
Graphite (CAS 7782-42-5)	TWA	2 mg/m ³	Respirable fraction.
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m ³	Respirable fraction.
Mica (CAS 12001-26-2)	TWA	3 mg/m ³	Respirable fraction.
Tin dioxide (CAS 18282-10-5)	TWA	2 mg/m ³	
Titanium dioxide (CAS 1317-80-2)	TWA	10 mg/m ³	

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

Components	Type	Value	Form
Graphite (CAS 7782-42-5)	TWA	2 mg/m ³	Respirable fraction.
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m ³	Respirable fraction.

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

Components	Type	Value	Form
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable fraction.
Tin dioxide (CAS 18282-10-5)	TWA	2 mg/m3	
Titanium dioxide (CAS 1317-80-2)	TWA	10 mg/m3	

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

Components	Type	Value	Form
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable dust.
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Dust and fume.
		10 mg/m3	Total dust.
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable dust.
Tin dioxide (CAS 18282-10-5)	TWA	2 mg/m3	
Titanium dioxide (CAS 1317-80-2)	TWA	10 mg/m3	Total dust.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Chromium oxide (CAS 1308-14-1)	PEL	0.5 mg/m3	
Graphite (CAS 7782-42-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Iron oxide (CAS 1309-37-1)	PEL	10 mg/m3	Fume.
Titanium dioxide (CAS 1317-80-2)	PEL	15 mg/m3	Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value
Graphite (CAS 7782-42-5)	TWA	15 mppcf
Mica (CAS 12001-26-2)	TWA	20 mppcf

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.

Personal protective equipment**Eye / face protection**

Wear safety glasses with side shields (or goggles).

Skin protection

Wear suitable protective clothing. Wear protective gloves. Use personal protective equipment as required.

Respiratory protection

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter.

9. Physical & Chemical Properties

Appearance	Solid, various colors.
Physical state	Solid.
Form	Powder.
Color	Various colors.
Odor	None.
Odor threshold	Not applicable.
pH	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Boiling point	Not applicable.
Melting point/Freezing point	Not available.
Solubility (water)	Insoluble in water.
Specific gravity	3.1

Flash point	Not applicable.
Flammability limits in air, upper, % by volume	Not applicable.
Flammability limits in air, lower, % by volume	Not applicable.
Auto-ignition temperature	Not applicable.
Evaporation rate	Not available.
Viscosity	Not applicable.
Partition coefficient (n-octanol/water)	Not applicable.
Other data	
Flammability (solid, gas)	Non flammable.

10. Chemical Stability & Reactivity Information

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	None under normal conditions.
Incompatible materials	None known.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Iron oxide (CAS 1309-37-1)		
Acute		
<i>Oral</i>		
LD50	Rat	> 10 mg/kg
Acute effects	May cause discomfort if swallowed.	
Sensitization	Not a skin or respiratory sensitizer.	
Chronic effects	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.	
Carcinogenicity	Possible cancer hazard - may cause cancer based on animal data.	
ACGIH Carcinogens		
Chromium oxide (CAS 1308-14-1)		A4 Not classifiable as a human carcinogen.
Iron oxide (CAS 1309-37-1)		A4 Not classifiable as a human carcinogen.
Titanium dioxide (CAS 1317-80-2)		A4 Not classifiable as a human carcinogen.
IARC Monographs. Overall Evaluation of Carcinogenicity		
Chromium oxide (CAS 1308-14-1)		3 Not classifiable as to carcinogenicity to humans.
Iron oxide (CAS 1309-37-1)		3 Not classifiable as to carcinogenicity to humans.
Titanium dioxide (CAS 1317-80-2)		2B Possibly carcinogenic to humans.
Skin corrosion/irritation	May cause irritation through mechanical abrasion.	
Serious eye damage/irritation	Dust may irritate the eyes.	
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Reproductive effects	Based on available data, the classification criteria are not met.	
Teratogenicity	No data available.	
Symptoms and target organs	Coughing. Dust may irritate the eyes and the respiratory system.	
Synergistic materials	Not available.	

12. Ecological Information

Ecotoxicological data	No ecotoxicity data noted for the ingredient(s).
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Ecotoxicity	Not expected to be harmful to aquatic organisms.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Aquatic toxicity	Not classified.
Persistence and degradability	The product contains inorganic compounds which are not biodegradable.
Bioaccumulation / accumulation	The product is not expected to bioaccumulate.
Mobility in environmental media	The product is insoluble in water and will sediment in water systems.

13. Disposal Considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations.
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

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	Not established.

15. Regulatory Information

Canadian regulations	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
WHMIS status	Controlled
WHMIS classification	D2A - Other Toxic Effects-VERY TOXIC
WHMIS labeling	



International Inventories

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

*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).

16. Other Information

NFPA ratings

Health: 1
Flammability: 0
Instability: 0

Disclaimer

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Prepared by

LATICRETE International