

ALEC TIRANTI LIMITED

TOOLS, MATERIALS & EQUIPMENT FOR MODELLING, CARVING, SCULPTURE
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Material Safety Data Sheet

CIMENT FONDU LAFARGE

1. IDENTIFICATION OF SUBSTANCE

Name: Ciment Fondu Lafarge
 Calcium Aluminate Binder
 An odourless grey to black powder, insoluble in water.

CAS No: 65997-16-2
EEC No: 266-045-5

2. COMPOSITION

The principle constituents are:-

Chemistry	Compounds
Al ² O ³ 38.0 – 40.0%	CaO - Al ² O ³
CaO 37.0 – 39.0%	12CaO – 7Al ² O ³
SiO ² 3.0 – 5.0%	2CaO - SiO ²
Fe ² O ³ /FeO 15.0 – 18.0%	4CaO-Al ² O ³ -Fe ² O ³

3. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Particulate
Particle Size Distr.: 1 to 130 microns
pH Water Solution: 11.0 – 11.5
Relative Density: 3.2
Bulk Density: 1150 – 1440 Kg/m³
Fineness: 285 – 345 m²/Kg
Flammability: N/A (not flammable)
Explosive Properties: N/A (not explosive)

4. STABILITY AND REACTIVITY

Conditions Contributing to:-

Chemical Instability: None
Hazardous Decomposition Products: None
Special Precautions: None

5. TOXICOLOGICAL INFORMATION

This material has no known toxic or carcinogenic effects.

6. HAZARDS IDENTIFICATIONS

Classification: Irritant
Human Effects: Dry powder, has no effect on dry skin. When mixed with water, an alkaline solution is produced. A dust problem may occur in confined areas.
Environmental Effects: No effects, calcium aluminates are insoluble in water.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Standard (OES), 8hrs

Time Weighted Average (TWA)

Total Inhalable Dust: 10mg/m³**Total Respirable Dust:** 5mg/m³Personal Protection**Eyes:** Dust proof goggles should be worn whenever there is a risk of powder or wet mixture entering the eyes.**Skin:** Protective clothing should be worn, including waterproof gloves, trousers and Wellington boots. Any wet material, contaminated clothing, should be removed immediately and the skin washed thoroughly, as well as the protective clothing / footwear.**Respiratory Protection:** Suitable respiratory protection should be worn, to ensure that personal exposure is less than the OES, i.e. dust mask.**8. FIRST AID MEASURES****Skin Contact:** Wash affected areas with plenty of clean water.**Eye Contact:** Wash eyes immediately with plenty of clean water and, if necessary, seek medical advice.**Inhalation:** If irritation occurs, move to fresh air. If nose or airways become inflamed, seek medical advice.**Ingestion:** Do not induce vomiting. Wash out mouth with water and give patient plenty of water to drink.**9. FIRE FIGHTING MEASURES**

The substance is not flammable and does not support burning or dangerous synergistic reactions with other materials, provided that these substances themselves are stable.

10. ACCIDENTAL RELEASE MEASURES**On Spillage:** Spilt material may be collected for re-use, provided that no contamination has occurred.**Personal Precautions:** See 7.2**Environmental Precautions:** Do not empty material into drains, sewers/water courses, as substance hardens when in contact with water.**11. HANDLING AND STORAGE****Storage:** Store in dry conditions, preferably above ground on pallets protected by shrink wrapping. This will prevent moisture ingress and prolong shelf life.**Handling:** Wear personal protective equipment and clothing to avoid contact with the skin and eyes.**12. DISPOSAL**

Dispose of empty bags or material at an authorised disposal site.

13. ECOLOGICAL INFORMATION

Stable in soil. No photodegradation with sunlight. When mixed with water, the increase in pH may, in some cases, be toxic to aquatic life.

14. TRANSPORTATION INFORMATION

Not classified as hazardous for transport purposes.

15. REGULATORY INFORMATION

Chemical (Hazard Information & Packaging) Regulations 1993.

Classification: Irritant**Risk Phases:** None**Safety Phases:** -Wear suitable protective clothing, gloves and eye/face protection.

- In case of contact with eyes, rinse immediately with plenty of clean water, if necessary, seek medical advice.
 - After contact with skin, wash immediately with plenty of clean water.
 - Keep out of the reach of children
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16. RELEVANT REGULATIONS AND REFERENCES

- Health and Safety at Work Act 1974
 - HSE Occupational Exposure Criteria Document Summaries 1993 Edition (ISBN 0118821202)
 - Control of substances Hazardous to Health (Regulations) 1988
 - HSE Guidance Note EH26 (Occupational Skin Diseases – Health and Safety Precautions – HMSO 1981)
 - HSE Guidance Not EH40 (Occupational Exposure Limits)
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