

ALEC TIRANTI LIMITED

TOOLS, MATERIALS & EQUIPMENT FOR MODELLING, CARVING, SCULPTURE

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Material Safety Data Sheet

Cement Fondu

1. Identification of the Substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : CIMENT FONDU®

Product code : K00CF

1.2 Relevant identified uses of the substance or mixture and uses advised against

Hydraulic binder for concretes and dry-mix mortars manufacturing

1.3 Details of the supplier of the safety data sheet

Registered company name : KERNEOS SA.

Address : 8, Rue des Graviers.92521.Neuilly-sur-Seine Cédex.France.

Telephone : +33 1 46 37 90 00. Fax : +33 1 46 37 92 00.

sds@kerneos.com

1.4 Emergency Telephone Number

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

2. Hazards Identification

2.1 Classification of the Substance or Mixture

2.1.1 Regulation 1272/2008 (CLP) and following amendments and adjustments

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This substance does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This substance does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use

2.2 Label Elements

In compliance with EC regulation No. 1272/2008 and its amendments.

No labelling requirements for this substance.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

No labelling requirements for this substance.

2.3 Other Hazards

3. Composition/information on Ingredients

3.1 Substances

In accordance with the requirements REACH Annex XVII, art. 47 does not contain quantities of hexavalent chromium > 2 ppm, measured according to EN 196-10

Does not contain any detectable quantities of free lime or free crystalline silica (such as quartz, tridymite or cristobalite)

3.2 Mixtures

4. First Aid Measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person

4.1 Description of First Aid measures

In the event of exposure by inhalation :

In case of exposure to high concentrations of dust : move the affected person away from the contaminated area and into the fresh air

In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

Wash with soap

In the event of swallowing :

Seek medical attention, showing the label.

4.2 Most important symptoms and effects

4.3 Indication of any immediate medical attention and special treatment needed

5. Fire Fighting Measures

5.1 Extinguishing Media

Non Flammable

5.2 Special Hazards arising from the substance or mixture

Do not breathe in smoke

5.3 Advice for firefighters

No data available

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For fire-fighters

Fire-fighters will be equipped with suitable personal protective equipment (See section 8)

6.2 Environmental precautions

Prevent any material from entering drains or waterways.

6.3 Methods and material for containment and cleaning up

Retrieve the product by mechanical means (sweeping/vacuuming) : do not generate dust

6.4 Reference to other sections

No data available.

7. Handling and Storage

Requirements relating to storage premises apply to all facilities where the substance is handled

7.1 Precautions for safe handling

Always wash hands after handling

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the substance is used

7.2 Conditions for safe storage, including any incompatibilities

NO Data Available

Storage

Store in a cool and dry area

Packaging

Always keep in packaging made of an identical material to the original.

7.3 Specific end use(s)

No Data Available

8. Exposure Controls/Personal Protection

8.1 Control parameters

Occupational Exposure Limits

Particules not otherwise specified/classified

UK / WEL (Workplace exposure limits, EH40/2005, 2007) : Total Dust TWA=10mg/m³ Respirable dust TWA=4mg/m³

USA / OSHA PEL (Occupational Safety and Health Administration, Permissible Exposure Limits) : Respirable fraction TWA=5mg/m³ Total fraction TWA=15mg/m³

ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) : Respirable particules TWA =3 mg/m³

Inhalable particles TWA=10mg/m³

8.2 Exposure controls

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid breathing dust.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

General information :

Physical state : Powder or dust.
Apparent bulk density (Loose packed) : 1100 - 1300 kg/m³
Color: Grey / brown
Odour: Odourless

Important health, safety and environmental information

pH (aqueous solution) : 11 - 11.5 (20°C - 10%)
pH : Not relevant.
Boiling point/boiling range : Not relevant.
Flash point interval : Not relevant.
Vapour pressure (50°C) : Not relevant.
Density : 3.2 - 3.3
Water solubility : Partially soluble. <2%
Melting point/melting range : 1300 °C.
Self-ignition temperature : Not relevant.
Decomposition point/decomposition range : Not relevant.

9.2 other information

No data available

10. Stability and Reactivity

10.1 Reactivity

In the presence of water, calcium aluminates react chemically and harden to form stable calcium aluminate hydrates. This reaction is exo-thermal and may last up to 24 hours. The total heat released is < 500 kJ/k

10.2 Chemical Stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3 Possibility of hazardous reactions

None under normal conditions

10.4 Conditions to avoid

Avoid :

- formation of dusts
- humidity

10.5 Incompatible materials

None, to our knowledge

10.6 Hazardous decomposition products

None, to our knowledge

11. Toxicological Information

11.1 Information on toxicological effects

No data available

11.1.1 Substances

Acute toxicity :

.CEMENT, ALUMINA, CHEMICALS (CAS: 65997-16-2)

Oral route : LD50 > 2000 mg/kg

Species : Rat

OECD Guideline 401 (Acute Oral Toxicity)

Skin corrosion/skin irritation :

CEMENT, ALUMINA, CHEMICALS (CAS: 65997-16-2)

Corrosivity : No observed effect.

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious damage to eyes/eye irritation :

Dust may cause slight irritation to the ocular mucous membranes due to the presence of a foreign body

CEMENT, ALUMINA, CHEMICALS (CAS: 65997-16-2)

Corneal haze : Average score < 1

Species : Rabbit
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

No observed effect.

Iritis : Average score < 1
Species : Rabbit
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conjunctival redness : Average score < 2

Species : Rabbit
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conjunctival oedema : Average score < 2

Species : Rabbit
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitisation :

In accordance with the requirements REACH Annex XVII, art. 47 does not contain quantities of hexavalent chromium > 2 ppm, measured according to EN 196-1

Specific target organ systemic toxicity - single exposure :

Dust from this product may cause irritation to the respiratory tract

12. Ecological Information

12.1 Toxicity

12.1.1. Substances

Fish toxicity : LC50 > 100 mg/l

Species : Oncorhynchus mykiss

Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC > 100 mg/l

Species : Oncorhynchus mykiss

Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 = 6.6 mg/l

Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC = 1.8 mg/l

Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity : ECr50 > 5.6 mg/l

Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC = 3.2 mg/l

Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2 Persistence and degradability

12.2.1. Substances

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3 Bioaccumulative potential

No Data Available

12.4 Mobility in soil

No Data Available

12.5 Results of PBT and vPvB assessment

No Data Available

12.6 Other adverse effects

No Data Available

German regulations concerning the classification of hazards for water (WGK) :

WGK 1 (VwVwS vom 27/07/2005, KBws) : Slightly hazardous for water

13. Disposal Considerations

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC

13.1 Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor

14. Transport Information

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 IMDG

2012 - ICAO/IATA

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Regulation EC 1272/2008 modified by regulation EC 618/2012
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.

- Container information:

No data available.

- Particular provisions :

USA : CERCLA Hazardous substance (40CFR Part 302) : all substances are not listed in the CERCLA list

USA State of California : All substances are not listed in the Proposition 65 list

US Toxic Substances Control Act TSCA : All substances are listed in the EPA (Environment Protection Agency) TSCA inventory

USA SARA section 311/312 categorizations : None

Canada : Domestic Substance List (DSL) : all substances are registered in the DSL inventory

WHMIS : none

- German regulations concerning the classification of hazards for water (WGK) :

WGK 1 (VwVwS vom 27/07/2005, KBws) : Slightly hazardous for water.

- Standardised American system for the identification of hazards presented by the product in view of emergency

procedures (NFPA 704) :

NFPA 704, Labelling: Health=0 Inflammability=0 Instability/Reactivity=0 Specific Risk=none

15.2 Chemical safety assessment

No data available

16. Other Information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

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