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KERNEOS

CIMENT FONDU®

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier : CIMENT FONDU®

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

Name : KERNEOS SA
Address : 8, Rue des Graviers

92521 Neuilly-sur Seine Cédex

FRANCE

 Telephone number
 : +33 1 46 37 90 00

 Telefax number
 : +33 1 46 37 92 00

 E-mail
 : sds@kerneos.com

1.4. Emergency telephone number : ORFILA (France): +33 1 45 42 59 59

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or

mixture

MOST IMPORTANT HAZARDS

Adverse human health effects : To our knowledge, no specific risk when handled in accordance with good occupational

hygiene and safety practice.

Environmental effects : Presents no particular risk to the environment, provided the recommendations concerning

disposal (see section 13) and any applicable national or local regulations are complied with.

Physical and chemical hazards

- Fire or explosion : No specific hazard under normal conditions of use

Classification of the product : According to EC regulations, this product is not classified as a "hazardous mixture". (directive

1999/45/EC and regulation (EC) 1272/2008 (CLP))

This material is not classified as hazardous under OSHA regulations. This material is not classified as hazardous under WHMIS regulations.

2.2. Label elements

Hazard pictograms : None
 Hazard statements : None
 Precautionary statements : None

2.3. Other hazards : None, to our knowledge

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE

 Substance name
 Contents
 CAS No
 EC No
 Index No
 Classification

 Cement, alumina, chemicals
 : > 99.5 %
 65997-16-2
 266-045-5
 --- --- Not classified (DSD/DPD)

Not classified (GHS)

Further information : Does not contain any detectable quantities of free lime or free crystalline silica (such as

quartz, tridymite or cristobalite)

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



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CIMENT FONDU®

4.1. Description of first aid measures

Skin contact

SECTION 4 FIRST AID MEASURES

Inhalation : In case of exposure to high concentrations of dust :

Move the affected person away from the contaminated area and into the fresh air If you feel

unwell, seek medical advice : Wipe off as much as possible

Wash with soap and water In case of redness or irritation, consult a doctor

Eye contact : Rinsing with water whilst keeping the eyelids well open

If irritation persists, consult an eye specialist

Ingestion : Rinse mouth out with water

> Never attempt to induce vomiting If you feel unwell, seek medical advice

4.2. Most important symptoms and effects, both acute and delayed

: None, to our actual knowledge, in normal use.

4.3. Indication of any immediate medical attention and special

treatment needed

: None, to our actual knowledge, in normal use.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media : All extinguishing media can be used.

5.2. Special hazards arising from the

substance or mixture 5.3. Advice for fire-fighters

: Not combustible. Does not present any particular risk in the event of a fire

: Cool down the containers/equipment exposed to heat with a water spray

Contain the extinguishing fluids by bunding

Do not attempt to fight the fire without suitable protective equipment : Suitable

breathing apparatus

Complete protective clothing

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective : For non-emergency personnel :

equipment and emergency procedures Avoid contact with skin and eyes

Do not breathe dust.

For emergency responders:

Do not attempt to fight the fire without suitable protective equipment For further

information see section 8

6.2 Environmental precautions : Do not discharge into the environment

Do not discharge into drains and rivers

6.3. Methods and material for containment and cleaning up

: Sweep up or vacuum up the product - Recovery

Collect up the product and place it in a spare container suitably labelled Avoid the

dispersion of dust

- Cleaning/decontamination : Wash non-recoverable remainder with large amounts of water

- Disposal : Dispose of at a licensed waste collection point

6.4 Reference to other sections : For further information see section 13



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SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Technical measures : Ensure good ventilation of the work station

Precautions : Avoid contact with skin and eyes

Do not breathe dust

Hygiene measures : Always wash your hands after handling the product

Do not drink, eat or smoke in the workplace

7.2. Conditions for safe storage, including

any incompatibilities Storage conditions

- Recommended : Store :

- the container tightly closed - in a cool,

dry area.

- protected from humidity

Packaging materials

- Recommended : Original packaging7.3. Specific end use(s) : No information available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters Occupational

exposure limits

- France : Dust without specific effect :

Total dust - VME : 10 mg/m³ Inhalable dust

- VME : 5 mg/m³

- Germany : Dust without specific effect :

Inhalable dust: MAK: 3 mg/m³ Respirable

dust: MAK: 10 mg/m3

- USA (ACGIH) : Respirable dust : TLV : 3 mg/m³

Inhalable dust: TLV: 10 mg/m³

8.2. Exposure controls

Engineering measures : Ensure good ventilation of the work station

Extraction to remove dust at its source

Personal protective equipment

- Respiratory protection : In the event of insufficient ventilation :

Suitable anti-dust mask

- Hand protection : Impermeable protective gloves

The protective gloves to be used must comply with the specifications of EC directive 89/686/ EEC and the

resultant standard EN 374

Breakthrough time : refer to the recommandations of the gloves supplier

- Eye protection : Safety goggles- Skin and body protection : Protective clothing



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and

chemical properties

Physical state: Fine powderColour: grey brownOdour: odourlessOdour threshold: Not applicable

pH : 11 - 11.5 (Aqueous dispersion - 10 %)

Specific temperatures

Flammability characteristics

- Flash point : Not applicable- Auto-ignition temperature : Not applicable

Flammability (solid, gas) : The product is not flammable

Oxidizing properties : Non oxidizing material according to EC criteria

Explosive limits in air

Vapour pressure

Vapour density (air = 1)

Bulk density

Density:

: Not applicable
: Not applicable
: 1100 - 1300 kg/m³
: 3200 - 3300 kg/m³

Solubility

- in water : < 2 %

Octanol/water partition coefficient : Not applicable (inorganic substance)

Kinematic viscosity: Not applicableEvaporation rate: Not applicableExplosive properties: Not explosive

9.2 Other information : No additional information available

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity : In contact with water, the product reacts chemically and hardens into stable hydrates. This

reaction is exothermic and can last for 24h. The total heat released is about 500 kJ/kg

10.2. Chemical stability : Stable at ambient temperature and under normal conditions of use

10.3. Possibility of hazardous : None under normal conditions.

reactions

 10.4. Conditions to avoid
 : Water, humidity

 10.5. Incompatible materials
 : None, to our knowledge

 10.6. Hazardous decomposition
 : None, to our knowledge

products



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SECTION 1 1TOXICOLOGICAL INFORMATION

11.1. Information on toxicological

effects

Acute toxicity : Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Not irritating (OECD 404)Serious eye damage/irritation: Not irritating (OECD 405)

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

foreign body.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

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

Carcinogenicity: Based on available data, the classification criteria are not met.Germ cell mutagenicity: Based on available data, the classification criteria are not met.Reproductive toxicity: Based on available data, the classification criteria are not met.STOT - single exposure: Dust from this product may cause irritation to the respiratory tract.STOT - repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard : Not applicable

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity : LC 50 (Fish : Onchorhyncus mykiss) / 96h : > 100 mg/l (OECD 203)

EC 50 (Daphnia : Daphnia magna) / 48h : 6.6 mg/l (OECD 202)

EC 50 (algae : Pseudokirchneriella subcapitata) / 72h : > 5.6 mg/l (OECD 202)

(results based on a similar formulation)

By read across with soluble aluminium salts, it is reasonably assumed that the calculated

NOEC for the substance is greater than 1 mg/l

12.2. Persistence and degradability : After hydratation (several hours or several days under humid conditions), the product is stable

in soil and in water, with a negligible mobility of its components

12.3. Bioaccumulative potential : Available data on aluminium show that aluminium does not bioaccumulate

12.4. Mobility in soil : No information available

12.5. Results of PBT and vPvB

assessment

: Based on available data, the classification criteria are not met.

12.6. Other adverse effects : No information available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

WASTE FROM PRODUCT
Destruction/Disposal

CONTAMINATED PACKAGING

: Dispose of in accordance with relevant local regulations

Destruction/disposal

: Recycle following cleaning or dispose of at an authorised site

NOTE

: The user's attention is drawn to the possible existence of specific European, national or local

regulations regarding disposal



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SECTION 14 TRANSPORT INFORMATION

14.1. UN number: Not restricted14.2. UN proper shipping name: Not restricted14.3. Transport hazard class(es): Not restricted14.5. Environmental hazards: Not restricted

14.6. Special precautions for user
14.7. Transport in bulk according to
Annex II of MARPOL73/78 and the IBC

Code NOTE : No information available: No information available

: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, in case the date of issue is older than 12 months, compared to the current one, it would be advisable to check their validity with your commercial agency

SECTION 15 REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the

substance or mixture

Germany: : Water hazard class (WGK): 1

Storage class (Germany): 13 (according to The German chemical association VCI)

USA

US Toxic Substances Control Act -

: Calcium aluminate cement is listed in the EPA (Environment Protection Agency) TSCA (Toxic

Substances Control Act) Inventory

SARA - USA : CERCLA Hazardous Substance (

40CFR Part 302)

None

Canada

TSCA:

Domestic Substance List (DSL) : Calcium aluminate cement is registered in the DSL (Canada) inventory

WHIMS Classification: : None
15.2. Chemical Safety Assessment : Not realized

SECTION 16 OTHER INFORMATION

Further information : This sheet has been written in conformity with the REACH regulation, in accordance with the

: SARA section 311/312 categorizations : none

requirements of EC Regulation 453/2010

NFPA Hazard Rating : - Reactivity : 0

- Flammability : 0 - Health : 0 - Special : 0

Safety data sheet established by: KERNEOS

This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.

Besides, the attention of the user is drawn to the possible risk incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. The user alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentioned is just to help the user to fulfill his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

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