

**MATERIAL SAFETY DATA SHEET**

According to European guideline 91/155/C.E.E.

Product name: CALIGHT® 40 CALIGHT® 50 CALIGHT® 70

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Version 1.5  
February 2007**1. IDENTIFICATION OF THE FABRIC AND MANUFACTURER****1.1. Identification of substance**

Chemical name : Calcium aluminate cement  
Product name : fused calcium aluminate  
Commercial name : CALIGHT® 40 CALIGHT® 50 CALIGHT® 70  
CAS N° : 65997-16-2 for CALIGHT® 40 and CALIGHT® 50  
12042-68-1 for CALIGHT® 70

EEG N° : not mentioned  
EINEC N° : 266-045-5 voor CALIGHT® 40 en CALIGHT® 50  
234-931-0 voor CALIGHT® 70

Molecular weight : 84,07

**1.2 Identification of the manufacturer**

**CALTRA Nederland B.V.**  
P.O. Box 306  
Telephone : + 31-297 289340  
Fax : + 31-297 289350  
E-mail : info@caltra.com

**2. COMPOSITION/INFORMATION ON INGREDIENTS**CaO , Al<sub>2</sub>O<sub>3</sub> , Fe<sub>2</sub>O<sub>3</sub> , TiO<sub>2</sub>**3. HAZARDS IDENTIFICATION**

Overview of calamities : product is not inflammable

Danger symbols : n.a.

Eye contact : can cause eye irritation  
Skin contact : can cause skin irritation  
Inhalation : can cause irritation of the bronchial tubes  
Ingestion : swallowing can cause irritation of the mucous membranes

**4. FIRST AID MEASURES**

. Inhalation : move to fresh air. With difficult breathing apply oxygen.

. Eye contact : wash eyes immediately with plenty of clean water

. Skin contact : wash the effected area thoroughly with soap and water before continuing. Take off all contaminated clothing and shoes. If irritation, pain or other skin troubles occurs, seek medical advice. Contaminated clothing should be removed and washed thoroughly before use.

. Ingestion : do not induce vomiting. Wash out mouth with water and give patient plenty of water to drink.

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Nonflammable product

Protective measures in case of intervention: avoid moisturizing of cement, use powder extinguishers.

**6. ACCIDENTAL RELEASE MEASURES**

- . Personal precaution : wear personal protective equipment, avoid dust formation.
- . Do not breathe dust : wear anti-dust or oxygen mask in non-ventilated dusty rooms.
- . Methods for cleaning up : take up mechanically and collect in suitable container for disposal.
- . Environmental protective measures : do not flush in to water or sewer.

**7. STORAGE AND HANDLING**

- . Handling : avoid dust formation in confined areas
- . Storage : keep in a dry place, protected from humidity
- . Packaging : water-repellent bags or containers

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

- . Respiratory protection : suitable respiratory protection should be worn in non-ventilated rooms.
- . Eye protection : wear safety glasses
- . Hand protection : wear safety gloves
- . Skin protection : protect the body with suitable clothing (shirts with long sleeves and long trousers worn over watertight shoes)

**9. PHYSICAL / CHEMICAL PROPERTIES**

- . Aspect : brown powder (Calight 40), beige powder (Calight 50), white powder (Calight 70)
- . pH : 10 – 11 (Calight 40), 11- 11,5 (Calight 50), 11,3 – 12,5 (Calight 70)
- . Boiling point : N/A
- . Melting point : 1100°C (Calight 40), 1270° C -1440° C (Calight 50), 1680 ° C (Calight 70)
- . Flash point : N/A (nonflammable)
- . Explosive properties : N/A (non explosive)
- . Density : 3,0 - 4,0g/cm<sup>3</sup> (Calight 40), 3,2 g/cm<sup>3</sup> (Calight 50), 2,8 - 3,2 g/cm<sup>3</sup> (Calight 70)
- . Solubility : N/A

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- . Stability : stable product
- . Avoid circumstances : humid places
- . Avoid substances : water, acids
- . Dangerous decomposition substances : none

**11. TOXICOLOGICAL INFORMATION**

Non-toxicological substance

**12. ENVIRONMENTAL INFORMATION**

Possible hydraulic substance that can only develop in the proximity of calcium salts to hydration and then the pH can rise and may therefore lead to toxic aquatic life in some circumstances. Calcium aluminate can not carbonate. The substance is neutral to the ecology. The substance can be disposed off without objections.

**13. DISPOSAL CONSIDERATIONS**

In the field of the ecology the product can be disposed of without any danger, with regard to the information under Nr. 11. The European legislation does not have a specification with regards to the disposal of this substance.

**14. INFORMATION ON TRANSPORT**

**ADR/RID** : niet opgenomen ADR : European agreement on road transport of dangerous substance  
RID : International Rail Transport regulation for dangerous substances  
**IMDG** : niet opgenomen IMDG : International Maritime Dangerous Goods Code  
**IATA** : niet opgenomen IATA : International Air Transport Association

**15. REGULATORY INFORMATION**

- Symbol : n.a.
- Exceptional risks : R 37/38 irritating for respiration system and skin  
R 41 danger for severe eye damage
- Precaution : S 2 Keep out of reach of children  
S 24 Avoid skin contact  
S 25 Avoid eye contact  
S 26 After contact with eyes, rinse immediately with plenty of clean water and seek medical advice  
S 37 Wear suitable protective gloves

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### 16. ADDITIONAL INFORMATION

This data sheet is in addition to the technical data sheet but does not replace it. The data this document contains is based on our knowledge with this product based on the date of issue. This has been given sincerely. The attention of the user is stated on the possible risks when this product is being used for purposes other than the original use.

It doesn't relieve the user from the responsibility to know the whole of legally mandatory texts over it's activities and applying them. The user is responsible for the precaution measures, which are connected to the use of this product.

#### Agreement

According to the European guideline 91/55/C.E.E. modified by guideline 93/112/EG of the commission for application of article 10 guideline 88/379/EEG of the Council.  
Technical equality to the project of the International 11014 : 1992.