1. SUBSTANCE IDENTIFICATION

1.1. Name of substance Calcium Aluminate Cements
GÓRKAL 40, GÓRKAL 40M, GÓRKAL 50

1.2. Purpose
production of concretes and refractory mortars as well as ingredient of construction chemistry products

1.3. Data concerning manufacturer
Manufacturer: Górka Cement Sp. z o. o.
Street: 22 Lipca 58
Postal code/city: 32-540 Trzebinia
Country: Poland
Telephone no.: ++48 32 758 10 99
Fax: ++48 32 623 34 50
e-mail: sekretariat@gorka.com.pl
website: www.gorka.com.pl

1.4. Emergency contact number ++48 32 758 10 99

2. HAZARD IDENTIFICATION

2.1. After mixing with water an alkaline solution is formed (pH 11 – 11.5). In contact with the skin and the eyes a slight temporary irritation may occur. The alkaline reserve anyway is not enough to consider the product irritant according to the criteria of Directive 67/548EEC (and further adaptations to technical progress).

2.2. A relevant dust concentration may occur when used in confined areas. It is regarded as nuisance dust with any known specific effects to health.

2.3. The reaction of hardening is exothermic. In large quantities the temperature may increase enough to cause a risk of burns.

3. COMPOSITION AND INFORMATION ABOUT INGREDIENTS

3.1. Chemical and mineralogical composition
Inorganic hydraulic binder obtained from calcium aluminates clinker
Chemical composition of the substance: Al₂O₃, CaO, Fe₂O₃, SiO₂
Mineralogical composition: CA, C₁₂A₇, C₄AF, C₃AS
Does not contain free CaO and crystalline SiO₂

3.2. CAS number 65997-16-2 (calcium aluminates)

3.3. Hazardous components declaration and classification of components according to the EU Commission Directives 91/155/EEC, 67/548/EEC (and further adaptations to technical progress) and 1999/45/EC.
Calcium aluminates: classification - none
hazard labeling – none

4. FIRST AID

4.1. First aid measures
breathing in dust - remove the affected person from the dusty place
skin contact - wash with water
eye contact - rinse with plenty of water, medical assistance recommended
ingestion – wash out with water and give plenty of water to drink

5. FIRE FIGHTING MEASURES
Non-flammable substance
6. ACCIDENTAL RELEASE INTO THE ENVIRONMENT

6.1. Methods of neutralization if spilt
remove mechanically in dry conditions, prevent from penetration into wastewater, sewage and running water. Hardened cement may be used as construction rubble.

7. SUBSTANCE HANDLING AND STORAGE

7.1. Storage
keep in a well-ventilated, dry place in bags on pallets, protect from moisture; environment humidity may not exceed 50%; in such conditions the product may be stored for 6 months.

7.2. Handling
work with the substance should be carried out in rooms that can be ventilated.

8. EXPOSURE CONTROL AND MEANS OF PERSONAL PROTECTION

8.1. MAC values
Total dust 6 mg/m³
Respirable dust 2 mg/m³
The MAC value for dust in the workplace is based on the Decree of the Minister of Labour and Social Policy of 29th November 2002 with regard to the maximum admissible concentration and intensity of health-damaging factors in the workplace (Polish Official Journal of Laws no. 217 item 1833 with later changes).

8.2. Methods of exposure evaluation
analyses of the work environment carried out by an authorized Environmental Research Laboratory.

8.3. Means of personal protection
dust-mask, protective clothing, safety gloves and safety boots are suggested.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.2. Physical state
solid

9.3. Form
brown powder

9.4. Smell
odorless

9.5. pH
11 – 11.5

9.6. Specific temperatures:
boiling point not applicable
melting point 1280°C
flash point not applicable
auto ignition point not applicable

9.7. Flammability
non-flammable

9.8. Explosive properties
not explosive

9.9. Oxidation properties
no oxidation properties

9.10. Vapour pressure
not applicable

9.11. Solubility in water
slightly soluble (solubility of unhydrated calcium aluminates is approximately 3.5 g/l)

9.12. Solubility in organic solvents
insoluble in organic solvents

10. STABILITY AND REACTIVITY
the substance is stable under normal storage and handling conditions.

11. TOXICOLOGICAL INFORMATION

11.1. Acute toxicity
none

11.2. Local effects
may cause local temporary irritation to eye, throat or skin, but it is not classified as irritant according to EU legislation

11.3. Sensitization and chronic toxicity
does not contain measurable amounts of soluble Chromium (VI) potentially causing allergic skin eczema or cancer.
12. ECOLOGICAL INFORMATION

the substance has no adverse effect on the environment

13. WASTE HANDLING

packaging waste is recyclable (Product Fee Act)

14. INFORMATION REGARDING TRANSPORT

the substance does not require special precautions during transport

15. LEGAL REGULATIONS


Symbol – none
R – phrases – none
S 22 – do not inhale the powder
S 25 – avoid contamination of the eyes
S 26 – in case the product contaminates eyes rinse them immediately with abundant quantity of water, medical help advisable
S 36/37 – wear suitable protective cloth and gloves

Legal basis for preparation of this data sheet

15.2. The commission Directive of the European Communities 91/155/EEC.

15.3. The commission Directive of the European Communities 67/548/EEC (and further adaptations to technical progress).

15.4. The commission Directive of the European Communities 1995/45/EC.


15.9. Decree of the Minister of Labour and Social Policy of 29th Dec 2002 on the maximum admissible concentration and intensity with adverse effects on health in the workplace (Polish Official. Journal of Laws no. 217 item 1833 with later changes).

16. OTHER INFORMATION

16.1. The product doesn't require the use the chrome (VI) reducing agent.

16.2. The information contained in this data sheet regards exclusively the substance described herein. The user is obliged to evaluate and to use the substance in a safe way, according to the applicable laws and regulations.

16.3. Form of publication of the data sheet: leaflet printed by GÓRKA CEMENT.

16.4. This data sheet replaces the previous sheets with the symbol KCh/GC/G40/3 of 1st Jan 2007, KCh/GC/G50/3 of 1st Jan 2007.

16.5. Data sheet prepared by: GÓRKA CEMENT Sp. z o. o. in Trzebinia.