

Safety Data Sheet

in accordance with Regulation (CE) n.1907/2006 (REACH)

K-FLEX K-FIRE EX MORTAR

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: K-FLEX K-FIRE EX MORTAR
Trade code: isol005f

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

Recommended use:

Sealant for penetration through walls and floors for fire integrity and insulation.

Uses advised against:

Not for consumer use

1.3. Details of the supplier of the safety data sheet

Distributor:

K-FLEX Polska SP. z o.o.
ul. Pucka 112, 81-154 Gdynia, Polska

Company:

L'Isolante K-Flex SpA
Via Leonardo da Vinci 36, 20877. Roncello, MB, Italy
Phone: +39 039 68 24.1

Competent person responsible for the information sheet:

Kflex-Reach@isolante.com

1.4. Emergency telephone number

K-FLEX Polska SP. z o.o.
Phone: +48 63 288 0200

In case of accident, locate the nearest antipoison centres in the following link:

WHO <http://apps.who.int/poisoncentres/>

SECTION 2: Hazards identification

2.1. Classification of the mixture

EC regulation criteria 1272/2008 (CLP):

Causes irreversible eye damage, Eye Dam 1 H318

May Cause an allergic skin reaction, Skin Irrit 2 H 317

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties:

Irritant, Sensitisation by skin contact

2.2. Label elements



Hazard pictograms

Signal words Danger

Hazard statements

H317 May cause an allergic skin reaction

H318 Cause serious eye damage

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Precautionary statements

- P261 Avoid breathing dust
P280 Wear protective gloves, protective clothing and eye or face protection
P302+P352 IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do, continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Does not contain asbestos, fibers, halogens or other classified materials.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Note that the table shows known hazards of the ingredients in a pure form. These hazards are reduced or eliminated when mixed or diluted.

15-20% PORTLAND CEMENT
CAS Number: 65997-15-1
EC Number: 266-043-4
Index Number: NA
Registration Number: NA

Classification:
Skin Irrit 2, H315
Eye Dam 1, H318
Skin Sens 1B, H317
STOT SE 3, H335

Substance with Community Workplace exposure limit

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing and dispose off safely.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath). Do not use solvents or thinners. Seek medical attention if skin irritation occurs and persists.

In case of eyes contact:

In case of contact with eyes, remove solid particles, rinse immediately with plenty of water for at least 15 minutes and seek medical advice.

In case of Ingestion:

Rinse out mouth with water. Drink plenty of water.

Do not under any circumstances induce vomiting. Obtain a medical examination immediately.

In case of inhalation of dust produced from handling:

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Remove casualty to fresh air, slush nose, mouth and throat with water, keep warm and at rest. Obtain a medical examination immediately

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

There may be a mild irritation at the site of contact.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None known to now.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale combustion gases. Fire can produce dense smoke containing hazardous products of combustion (carbon monoxide and carbon dioxide). In case of incomplete combustion, products contains aldehydes and other toxic, harmful, irritant or environmentally harmful sustanes.The product is no hazardous in the flammable sense.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Don not inhale the product and avoid exposure to skin and eye

6.2. Environmental precautions

Dyr concrete: Use sanitation methods such as vacuum sanitation and vacuum extraction :industrial portable units, equipped with highly efficient air filters (EPA and HEPA, EN1822-1:2009) or equivalent, which do not lead to airborne dispersion. Never use compressed air. Alternatively clean up the dust by washing the area, we vacuuming or by using water spary or hosing(a fine mist to avoid that the dust becomes airborne) and discard slurry. If this is not possible, discard by supending in water.

When wet claning or vacuuming is not possible, and only dry cleaning with brush is possible, please ensure that the workes are using adequate protective clothing and avoid dispersing the dust. Avoid inhalation and skin contat with the concrete. Put watste in container. Solidify before disposal according to the escription in section 13.

Wet concrete: Remove wet concrete and put it in a container. Let the substance dry and harden before disposal according to the description in Section 13.

Residues left behind after claning shall be trated as hazardous waste.

Do not allow to enter into soil/subsoil as a waste. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

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In case of entry into waterways, soil or drains as a waste, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes by hands contact, and inhalation.

Minimize and control dust when using.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Keep dry and protect from dampness and humidity.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

Strong oxidizers and acids.

Instructions as regards storage premises:

Store between +5°C and +30°C in a dry well-ventilated place away from sources of heat.

Protect from frost. Store only in the original package.

7.3. Specific end use(s)

Sealant for penetration through walls and floors for fire integrity and insulation.

The Manual Handling Regulation may apply to the handling of containers/packages of this product. In order to calculate the weight of any pack size, multiply the volume in litres by specific gravity value given in Section 9.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

None

DNEL Exposure Limit Values

None

PNEC Exposure Limit Values

None

LTEL Exposure Limit Values

None

8.2. Exposure controls

Eye protection:

Where excessive dust may result during the handling, wear approved mask. Eye protection should be worn if there is any danger of direct exposure or splashing.

Protection for skin:

Full protection suit.

Protection for hands:

Gloves with long cuffs.

For more detailed instructions, taking into account the user manual provided by the glove.

Respiratory protection:

The use of a dust mask or equivalent to EN 149 Category FFP2S, and the provision of dust extraction/ventilation where dust is produced is recommended. In case of insufficient ventilation of nuisance odors, wear appropriate respiratory equipment.

Combination filtering device (DIN EN 141).

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Environmental exposure controls:

Exposure limit values have been established by many authorities. Check on limit values that apply in your local situation.

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Local exhaust and general ventilation must be adequate to meet exposure standards. appropriate engineering controls.

According to:

Directive 2004/37/EC on the protection of workers from risk related to exposure carcinogens or mutagens at work.

Directive 98/24/EC-risk related to chemical agents at work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour:	Powder, white
Odour:	Scentless
Odour threshold:	Not determined
pH:	Not determined
Melting point / freezing point:	Non applicable
Initial boiling point and boiling range:	Non applicable
Solid/gas flammability:	Not combustible
Upper/lower flammability or explosive limits:	Not available
Vapour density:	Not relevant
Flash point:	Not applicable
Evaporation rate:	Not available
Vapour pressure:	Not applicable
Density:	3kg/m ³ at 20°C
Solubility in water:	Solubility in water Moderatly soluble (1-5%)
Solubility in oil:	Not determined
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available

9.2. Other information

Miscibility:	Not Available
Fat Solubility:	Not available
Conductivity:	Not available
Substance Groups relevant properties:	Not Relevant

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended transport of storage conditions. When the concrete is mixed with water, it hardens to a stable substance, which is not reactive in normal environment.

10.2. Chemical stability

Stable under normal conditions.

Contact with incompatible materials should be avoided. Wet concrete is alkaline and incompatible with acids, ammonium slats, aluminium and other non-noble metals. Concrete disolves in hydrofluoric acid and creates volatile silicon tetrafluoride gas. The concrete

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reacts with water and creates silicates and calcium hydroxide. Silicates in concrete react with strong oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen fluoride.

- 10.3. Possibility of hazardous reactions
Reaction may occur with strong oxidizing agent. Stable product which does not cause any dangerous reaction with other substances.
- 10.4. Conditions to avoid
Stable under normal conditions.
- 10.5. Incompatible materials
Strong mineral acids (nitric acid, hydrochloric acid, sulfuric acid, hydrofluoric acid),
Avoid contact with strong oxidants.
- 10.6. Hazardous decomposition products
In combustion emits toxic fumes.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the mixture:
Not tested on this product.

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

- 12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
No toxic effect are described in Ecotoxicological study available
The product contains substance which has been classified as an irritant. Harmful effects on animals, plants and micro-organisms in the local environment cannot be ruled out.
- 12.2. Persistence and degradability
No data available on product
- 12.3. Bioaccumulative potential
No data available on the product and no bioaccumulation potential
- 12.4. Mobility in soil
No data available on product
- 12.5. Results of PBT and vPvB assessment
No data available on product
- 12.6. Other adverse effects
None known to now

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hardened substance is not hazardous waste.

Wastes, should be disposed at a site suitable for building products and in accordance with local regulation. Waste disposal in landfill (solid waste).

For this product inceneration is not recommended.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3. Transport hazard class(es)

Not classified as dangerous in the meaning of transport regulations.

14.4. Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5. Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6. Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP)

Regulation (EU) n. 453/2010 (Annex I)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Where applicable, refer to the following regulatory provisions :

Directive 76/464/EEC: Water pollution by discharges of certain dangerous substances

Directive 80/68/EEC: on the protection of groundwater against pollution caused by certain dangerous substances

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments

5.2. Chemical safety assessment

No

SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

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VIII Wydział Krajowego Rejestru Sądowego
Kapitał zakładowy w wysokości 22.137.000,00 PLN

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ECHA database
GESTIS Database
ACGIH Publication of 2012

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

PNEC: Predicted No Effect Concentration.

LGK: Storage classes (Germany only)

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

WGK: German Water Hazard Class.