

Safety Data Sheet

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

K-FLEX K-FIRE SEALANT S PLUS

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

- 1.1. Product identifier
Mixture identification:
Trade name: K-FLEX K-FIRE SEALANT S PLUS
Trade code: isol012f
- 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
Company:
L' ISOLANTE K-FLEX UK Ltd
Unit 9 Coalville Business Park, Jackson St, Coalville, Leicestershire LE67 3NR, United Kingdom
Distributor:
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
L'Isolante K-Flex SpA
Phone: +39 039 68 24.1
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): Not Classified

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:
Properties:
Not Classified

R Phrases:
Not Classified.

Adverse physicochemical, human health and environmental effects:
None
- 2.2. Label elements
Not required
- 2.3. Other hazards
vPvB Substances: None - PBT Substances: None
Does not contain asbestos, fibers, halogens or other classified materials.

Safety Data Sheet

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

K-FLEX K-FIRE SEALANT S PLUS

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

20-30 % Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

CAS Number:

EC Number: 934-956-3

Index Number:

Registration Number: 01-2119827000-58

Classification: Asp.Tox. 1 H304

Substance with Community Workplace exposure limit

<1% Silica, amorphous

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 accours and persists.

In case of eyes contact:

In case of contact with eyes, 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:

Remove casualty to fresh air and 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).

K-FLEX K-FIRE SEALANT S PLUS

Page n. 2 of 8

Safety Data Sheet

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

K-FLEX K-FIRE SEALANT S PLUS

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.

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.

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

6.2. Environmental precautions

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.

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.

Safety Data Sheet

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

K-FLEX K-FIRE SEALANT S PLUS

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics,
LTE: 1200 mg/m³ (Long, 8h)

Silica Amorphous
LTE: 6mg/m³ inhalable dust/mist
LTE: 2,4 mg/m³ respirable dust/mist

8.2. Exposure controls

Eye protection:

Where excessive dust may result during the handling, wear approved mask.

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).

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:	Viscous paste, grey white
Odour:	Slightly aromatic
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 available
Evaporation rate:	Not available
Vapour pressure:	Not applicable
Density:	1.25-1.30 Kg/m ³ at 20 °C
Solubility in water:	Not determined

Safety Data Sheet

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

K-FLEX K-FIRE SEALANT S PLUS

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
- 10.2. Chemical stability
Stable under normal conditions.
- 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.

Components:

- Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics
Oral LD50 > 5000 mg/kg (rat)
Dermal LD50 > 3160 mg/kg (rabbit)
Inhalation LC50 > 5266 mg/m³/4h (rat)
- Silica, amorphous
Oral LD50 > 5000 mg/kg (rat)
Dermal LD50 > 5000 mg/kg (rabbit)
Inhalation LC50 > 0.139 mg/m³/4h (rat)

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
Risk of irritation to skin
- c) serious eye damage/irritation
Risk of irritation to eyes

Safety Data Sheet

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

K-FLEX K-FIRE SEALANT S PLUS

- d) respiratory or skin sensitisation:
May cause an allergic reaction
- 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
In the local environment minor ecological effects may occur in case of large discharge.

- Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics
Fish Toxicity LL50 > 1028mg/l (96hr) (*Scophthalmus maximus*)
Daphnia toxicity LL50 > 3193 mg/l (48hr) (*Daphnia Magna*)
Algae toxicity ErL50 >10000 mg/l (72h) (*Skeletonema costatum*)

12.2. Persistence and degradability

Biodegradation 74% (28d) aerobic. Readily biodegradable.

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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 incineration 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.

K-FLEX K-FIRE SEALANT S PLUS

Page n. 6 of 8

Safety Data Sheet

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

K-FLEX K-FIRE SEALANT S PLUS

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:

- 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.

Safety Data Sheet

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

K-FLEX K-FIRE SEALANT S PLUS

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.