



# L'ISOLANTE K-FLEX

## SAFETY DATA SHEET in accordance with Directive 91/155/EEC

Date of  
Issue:  
17.12.'09

REV. NR.  
0001

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### 1 Identification of the substance or preparation

- 1.1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION  
Trade name **K-FONIK OPEN CELL 120 – 160 - 240**  
Use of the preparation **Insulation material for noise absorption control**  
Substance code **n.v.**
- 1.2 COMPANY/UNDERTAKING IDENTIFICATION  
**L'isolante K-Flex srl**  
Via Don Locatelli 35  
20040 Roncello (MI) - Italy  
Telephone: int +39 039 68241  
Fax: int +39 039 6824560
- 1.3 EMERGENCY TELEPHONE NUMBER INT+39 - 039-68241

### 2. Composition/information on ingredients

Based on open cell synthetic rubber with additives for fire performance, flexibility and UV stabilisation, bound with polyurethane.

2.1 SUBSTANCES PRESENTING A HEALTH / ENVIRONMENTAL HAZARD WITHIN THE MEANING OF DIRECTIVE 67/548/EEC

CAS number	EC number	Identification	m %	Symbols	R-phrases
n.ap.	n.ap.	n.ap.	n.ap.	n.ap.	n.ap.

See also section 15.

Full text of the R-phrases see point 16.2.

- 2.2 SUBSTANCES SUBJECT TO RECOGNISED EXPOSURE LIMIT VALUES PURSUANT TO COMMUNITY PROVISIONS BUT WHICH ARE NOT COVERED BY THE DIRECTIVE 67/548/EEC (SEE ALSO POINT 8.)  
With regard to the physical condition of the product (foam, elastomeric) there is no relevance of ingredients having threshold limits of dust (aluminium hydroxide,PVC).
- 2.3 ADDITIONAL INFORMATION  
It is a product in accordance with § 3 No. 5 Chemikaliengesetz (German legislation) and Annex VII to Directive 1999/45/EC.

### 3. Hazards identification

- 3.1 HAZARDS IDENTIFICATION  
No special hazards have to be mentioned.
- 3.2 CRITICAL HAZARDS TO MAN  
No special hazards have to be mentioned.
- 3.3 CRITICAL HAZARDS TO THE ENVIRONMENT  
The product is water-insoluble.

### 4. First aid measures

- 4.1 GENERAL INFORMATION None.
- 4.2 AFTER INHALATION under normal circumstances any dust created when the material is cut would not be airborne
- 4.3 AFTER CONTACT WITH SKIN Not harmful.
- 4.4 AFTER CONTACT WITH EYES Not harmful. If dust particles lodge in the eye seek medical attention for their removal.
- 4.5 AFTER INGESTION if swallowed DO NOT induce vomiting. Obtain professional medical attention.
- 4.6 HINTS FOR THE PHYSICIAN  
*Symptoms* n.av.  
*Hazards* n.av.  
*Treatment* n.av.



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### 5. Fire-fighting measures

- 5.1** SUITABLE EXTINGUISHING MEDIA  
Water, water spray, CO<sub>2</sub>, foam, powder
- 5.2** EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS  
The product has flame-retardant effects.  
Co-ordinate fire-fighting measures to the fire surroundings.
- 5.3** SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES  
Material is stable under normal conditions. In the event of a prolonged fire, as with all organic materials, there will be obnoxious and toxic fumes.
- 5.3** SPECIAL PROTECTIVE EQUIPEMENT FOR FIREFIGHTERS  
Use self contained breathing apparatus.
- 5.4** FURTHER INFORMATION  
Do not inhale explosion and combustion gases.

### 6. Accidental release measures

- 6.1** PERSONAL PRECAUTIONS  
Not hazardous.
- 6.2** ENVIRONMENTAL PRECAUTIONS  
Not hazardous however good practice is to avoid discharge into drains water courses or soil.
- 6.3** METHODS FOR CLEANING UP / TAKING UP  
Pick up mechanically and dispose in accordance with local regulations.
- 6.4** ADDITIONAL INFORMATION  
None.

### 7. Handling and storage (National measures see points 15. and 16.)

- 7.1** HANDLING  
*Advice on safe handling*  
No potential hazard, for lifting blocks use mechanical handling devices. Avoid formation of respirable particles when cutting.
- 7.2** STORAGE  
*Requirements for storage rooms and vessels*  
Keep container dry in a well-ventilated place.  
*Advice on storage compatibility*  
Keep away from strong acids and oxidising agents.  
*Further information on storage conditions*  
Store in a cool, dry place raised off floor.  
*Storage class (for Germany only)*  
LGK 13 (noncombustible solid) according to VCI-Lagerklassenkonzept.
- 7.3** SPECIFIC USE (S)  
Insulation of tubes, insulation of tanks (industrial works), air-conditionings, heatings and sanitations.

### 8. Exposure controls / personal protection

#### 8.1 EXPOSURE LIMIT VALUES (FOR GERMANY ONLY)

CAS number	identification	threshold limits	remarks
n.ap.	n.ap.	n.ap.	n.ap.

Remark: With regard to the physical condition of the product (foam, elastomeric) there is no relevance of ingredients having threshold limits of dust (aluminium hydroxide).

#### 8.2 EXPOSURE CONTROLS (OCCUPATIONAL EXPOSURE CONTROLS / ENVIRONMENTAL EXPOSURE CONTROLS)



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See section 7.

*Personal protective equipment*

*Respiratory protection:*

local exhaust ventilation system fitted onto to cutting machinery .  
Is advisable or wear a dust mask.

*Hand protection:*

practice good hygiene – wash hands with soap and water after use

*Eye protection:*

no specific recommendations

*Body protection:*

n.ap.

*General protective measures and hygiene measures:*

Wash hands before breaks and after work.

## 9. Physical and chemical properties

### 9.1 GENERAL INFORMATION

*Physical state:* flexible sheet or block of open cell structure foam in various thickness'

*Colour:* black

*Odour:* characteristic

pH (as supplied): n.ap.v of an aqueous solution: 7,0 (aqueous extraction)

Boiling point / boiling range (°C): n.ap.

Melting point / melting range (°C): n.ap.

Thermal decomposition (°C): > 400

Flash point (°C), c.c.: n.ap.

Flammability (solid, gas): n.ap.

Autoflammability: n.ap.

Ignition temperature (°C): n.ap.

Oxidising properties: n.ap.

Explosive properties: n.ap.

Lower explosion limit: n.ap. Upper explosion limit: n.ap.

Vapour pressure: n.ap.

Density / Bulk density: 200 - 280 kg/m<sup>3</sup>

Solubility in water: insoluble

Soluble in: n.ap.

Partition coefficient n-octanol/water: n.ap.

Viscosity: n.ap.

Solvent content: n.ap.

## 10. Stability and reactivity

### 10.1 STABILITY

Stable under recommended storage conditions.

### 10.2 CONDITIONS TO AVOID / MATERIALS TO AVOID

Heat/heat sources, naked flames, sparks.

Strong acids and alkalise.

### 10.3 HAZARDOUS REACTION

No dangerous reactions known.

### 10.4 HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products known.

### 10.5 ADDITIONAL INFORMATION: None.

## 11. Toxicological information

### 11.1 TOXICOLOGICAL EXAMINATION

*Acute oral toxicity / acute dermal toxicity / acute inhalation toxicity*

LD50 rat, oral (mg/kg) n.av.

LD50 rat, dermal (mg/kg) n.av.

LC50 rat, inhalation (mg/l/4h) n.av.

*Irritant effect*

Irritant effect on skin n.av.



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Irritant effect on eyes n.av.  
Sensitisation n.av.  
*Subacute toxicity / Sub-chronic toxicity*  
*Chronic toxicity* n.av.  
*Mutagenicity / Teratogenicity / Carcinogenicity* n.ap.  
*Further information* None.

### 11.2 EXPERIENCES MADE IN PRACTICE

No toxicological data available on the material as prepared.

According to experience, the product is considered to be harmless to health if handled and stored in the correct manner.

11.3 GENERAL REMARKS None.

## 12. Ecological information

### 12.1 ECOTOXICITY

#### *Aquatic toxicity*

LC50 (fish) n.av.

EC50 (daphnia) n.av.

IC50 (algae) n.av.

*Behaviour in sewage works:* The product has to be removed mechanically (trash rack).

### 12.2 MOBILITY

The product has not been tested.

### 12.3 DATA ON ELIMINATION (PERSISTENCE AND DEGRADABILITY)

The product has not been tested. The product is water-insoluble.

### 12.4 BIOACCUMULATIVE POTENTIAL

The product has not been tested.

### 12.5 OTHER ADVERSE EFFECTS

Ozone depletion potential n.av.

Photochemical ozone creation potential n.av.

AOX-hint Not to apply.

### 12.6 FURTHER INFORMATION

Chemical oxygen demand (COD) n.av.

Biochemical oxygen demand (BOD5) n.av.

The product is water-insoluble.

*Contains according to the formulation following heavy metals and compounds of the Directives 76/464/EEC and 80/68/EEC:*

List I: organic phosphorous compounds, organic halogen compounds

## ADDITIONAL ECOLOGICAL INFORMATION

No ecological data available on the material as prepared.

## 13. Disposal considerations

### 13.1 PRODUCT / UNUSED PRODUCT

Waste disposal corresponding to European Waste Catalogue.

Wastes must be classified with respect to their origin and depending on specific processing steps. The waste codes mentioned as follows are only constituted as our recommendations. Referring to the particular case they should be completed or revised.

Waste type Construction and demolition wastes

Waste notation Insulation materials and asbestos-containing construction materials

EC waste code 17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

Disposal operations D 10 Incineration on land

Recovery operations R 3 Recycling/reclamation of organic substances which are not used as solvents

R 5 Recycling/reclamation of other inorganic materials



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### 13.2 CONTAMINATED PACKAGING

Recommendation

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Recommended cleansing agent

Remove residues mechanically.t

### Disposal Product

Uncontaminated product may be returned to manufacturer for recycling or disposed as non-hazardous waste under local authority regulations.

## 14. Transport information

### 14.1 LAND TRANSPORT ADR / RID / GGVSE

UN-No.:

Name of the good:

Class:

Classification code:

Packing group:

Danger labels:

*Remark: No special precautions required*

### 14.2 MARINE TRANSPORT IMDG

UN-No.:

Proper Shipping Name:

Class:

Subsidiary Risk:

Packing group:

EmS:

*Remark: No special precautions required*

### 14.3 AIR TRANSPORT IATA-DGR

UN/ID-No.:

Proper Shipping Name:

Class:

Subsidiary Risk:

Hazard Labels:

Packing group:

*Remark: No special precautions required*

## 15. Regulatory information

### 15.1 LABELLING IN ACCORDANCE WITH DIRECTIVE EC

Symbol(s) of danger: n.ap.

Indication(s) of danger: n.ap.

Hazardous component(s) to be indicated on label: n.ap.

R-phrases: n.ap.

S-phrases: n.ap.

Special labelling for certain preparations: n.ap.

### 15.2 NATIONAL MEASURES (FOR GERMANY ONLY)

Restriction of occupation: n.ap.

Major-accident Regulation: n.ap.

Regulation on clean air (TA Luft): n.ap.

Fire and explosion hazards: n.ap.

Water hazard class:

not hazardous to water in accordance with VwVwS  
The Federal State Enactment for Facilities to Handle  
Water Endangering Substances (German VAWs-  
Anlagen-Verordnung) has to be observed

National Regulations

Regulation of Inflammable Liquids (VBF)

Not Applicable

Emission Control Act (ta-luft)

Not Applicable

Water Pollution Classification

Not Applicable



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### 16. Other information

- 16.1** KEEPING (RESTRICTIONS) n.ap.  
*Distribution* for industry consumer and trade companies
- 16.2** FULL TEXT OF THE R-PHRASES Not to apply.
- 16.3** TECHNICAL CONTACT POINT  
L'Isolante K-Flex srl - Roncello (MI) - Italy  
Telephone: +39 039 68241  
Telefax: +39 039 6824560
- 16.4** THIS INFORMATION IS BASED ON OUR PRESENT STATE OF KNOWLEDGE.  
IT SHOULD NOT THEREFORE BE CONSTRUED AS GUARANTEEING SPECIFIC PROPERTIES OF THE PRODUCTS AS DESCRIBED OR THEIR SUITABILITY FOR A PARTICULAR APPLICATION.

### **L'ISOLANTE K-FLEX**

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