

## Product Information Sheet

according to 1907/2006/EC, Article 31 and 2015/830

# K-FLEX AL CLAD SYSTEM

## 1 IDENTIFICATION OF THE ARTICLE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product Identifier  
Trade name: K-FLEX ST AL CLAD  
Shape: Sheet, tube, self-adhesive, tape  
Trade code: isol016a
- 1.2 Relevant identified uses of the article/mixture and uses advised against  
Polymeric foam coupled with multi layer laminate of aluminium for thermal insulation
- 1.3 Details of the supplier of the information sheet  
Company:  
L'ISOLANTE K-FLEX SpA  
Via Don Locatelli, 35, 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  
Phone: +39 039 68 24.1 (9:00 – 17:00 hours)  
In case of accident, locate the nearest antipoison centres in the following link:  
WHO <http://apps.who.int/poisoncentres/>

## 2 HAZARDS IDENTIFICATION

- 2.1 Classification of the article  
This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
It is an article according to REACH Regulation n. 1907/2006/CE and 2001/60/CE, it contains no substances included in Candidate List SVHC in quantities > 0.1%(w/w). Thus, it does not require a full SDS, according to Regulation 1907/2006/CE.
- 2.2 Label elements  
Labelling according to Regulation (EC) No 1272/2008:  
Symbols:  
None  
Hazard statements:  
None  
Precautionary statements:  
None

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### 2.3 Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

This document is outside the scope of Article 31 of REACH

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## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Identification of the substance:

Not Available.

### 3.2 Article/Mixtures

Articles of Flexible elastomeric foam in different shapes and dimensions.

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## 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area.

If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Rinse mouth with water of the subject. Consult a physician.

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

No known symptoms to date.

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

Treatment:

No known treatment to date.

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## 5 FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media:

Water.

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Carbon dioxide (CO<sub>2</sub>). Chemical dry powder. Water spray.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

#### 5.2 Special hazards arising from the substance or mixture

Burning smoke and fumes of carbon oxide (CO), carbon dioxide (CO<sub>2</sub>), sulphur dioxide (SO<sub>2</sub>) and halogens (Br, Cl).

#### 5.3 Advice for fire-fighters

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.

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## 6 ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Wear gloves and protective clothing

For emergency responders:

Wear gloves and protective clothing

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

#### 6.2 Environmental precautions

Contain spill

Inform the competent authorities.

Discharge the remains in compliance with the regulations

#### 6.3 Methods and material for containment and cleaning up

For containment:

Recover the product for reuse, if possible, or the removal.

For cleaning up:

After wiping up, wash the area and materials involved

Other information:

None in particular.

#### 6.4 Reference to other sections

See also section 8 and 13.

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## 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

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Do not eat or drink while working.

See also section 8 for recommended protective equipment.

- 7.2 Conditions for safe storage, including any incompatibilities  
Storage class (Germany only): LGK 13 non-flammable solid.  
Keep away from food, drink and feed.  
Incompatible materials:  
Strong oxidizers and acids.  
Instructions as regards storage premises:  
Adequately ventilated premises.

- 7.3 Specific end use(s)  
Polymeric foam coupled with multi layer laminate of aluminium for thermal insulation

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters  
No data available.
- 8.2 Exposure controls  
Eye protection:  
Goggles. Operate according good working practices.  
Protection for skin:  
Full suite. Operate according good working practices.  
Protection for hands:  
Disposable gloves. Operate according good working practices.  
Hand protection  
Not needed for normal use.  
Other  
Wear normal work clothing.  
Respiratory protection  
Not needed for normal use.  
Thermal hazards  
No hazard to report  
Environmental exposure controls:  
Use according to good working practices to avoid pollution into the environment.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties

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### K-FLEX AL CLAD SYSTEM

Physical and chemical properties	Value
Appearance	Solid
Odour	Characteristic
Odour threshold	Undefined
pH	7 (aqueous extraction)
Melting point/freezing point	Irrelevant
Initial boiling point and boiling range	Undefined
Flash point	Undefined
Evaporation rate	Undefined
Flammability (solid, gas)	Euroclass (EN 13501)
Upper/lower flammability or explosive limits	Undefined
Vapour pressure	Undefined
Vapour density	Undefined
Relative density	40-150 kg/m <sup>3</sup>
Solubility	Undefined
Water solubility	Not water soluble
Partition coefficient: n-octanol/water	Undefined
Auto-ignition temperature	Undefined
Decomposition temperature	>200°C
Viscosity	Undefined
Explosive properties	Undefined
Oxidising properties	Undefined

#### 9.2 Other information

None.

## 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable under normal conditions.

#### 10.2 Chemical stability

Stable under normal conditions.

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#### 10.3 Possibility of hazardous reactions

Reaction may occur with strong oxidizing agent.

#### 10.4 Conditions to avoid

Eliminate ignition sources.

#### 10.5 Incompatible materials

Strong mineral acids (nitric acid, hydrochloric acid, sulfuric acid, hydrofluoric acid), bromine, chlorine, hydrogen peroxide, aniline, benzene, chloroform, Freon 11, fuel FAM, carbon tetrachloride, trichloroethylene and xylene (reaction moderate or intensive).

Avoid contact with strong oxidants.

#### 10.6 Hazardous decomposition products

Decomposition products in case of fire: carbon oxide (CO), carbon dioxide (CO<sub>2</sub>), and halogens (Br, Cl).

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## 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Toxicological information of the article:

Not Available.

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

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.

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## 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment as a waste.

#### 12.2 Persistence and degradability

Not Available.

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- 12.3 Bioaccumulative potential  
Not Available.
- 12.4 Mobility in soil  
Not Available.
- 12.5 Results of PBT and vPvB assessment  
None.
- 12.6 Other adverse effects  
None known to date.

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## 13 DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods  
Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.  
Recover if possible. Operate according to local or national regulations

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## 14 TRANSPORT INFORMATION

- 14.1 UN number  
Not classified as dangerous in the meaning of transport regulations.  
Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).
- 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 MARPOL 73/78 and the IBC Code  
Not classified as dangerous in the meaning of transport regulations.

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## 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the article/mixture  
Reg (EC) n. 1907/2006 (REACH), Reg (EC) n. 1272/2008 (CLP), Reg (EC) n. 830/2015 (Requirements for the compilation of safety data sheets), Reg (E) n.790/2009, Dir 96/82/EC as amended.

15.2 Chemical Safety Assessment  
No.

## 16 OTHER INFORMATION

We declare the presence, in the finished product, of accelerating and expanding substances (SVHC list) in traces (<0.1%)

Pursuant to article 33 of REACH regulation 1907/2006, any changes relating to the presence of SVHC will be promptly communicated.

Regulatory information:

Reg 1907/2006 EC

Reg 1272/2008 EC

Reg 830/2015 EC

Bibliographic data :

SAX 12 Ed Van Nostrand Reinhold

MERCK INDEX 15 Ed

ECHA: European Chemicals Agency (<https://echa.europa.eu/it/information-on-chemicals>)

OSHA: European Agency for Safety and Health at Work

IARC: International Agency for Research on Cancer

IPCS: International Programme on Chemical Safety (Cards)

NIOSH: Registry of toxic effects of chemical substances (1983)

ACGIH: American Conference of Governmental Industrial Hygienists

TOXNET: Toxicology Data Network

WHO: World Health Organization

CheLIST: Chemical Lists Information System

GESTIS: International Limit Value (<https://limitvalue.ifa.dguv.de/>)

Acronyms:

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route (European accord regarding international transport of dangerous goods by land)

bw body weight

CLP Classification, Labelling and Packaging

CSR Chemical Safety Report

DMEL Derived Minimal Effect Level

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DNEL Derived No Effect Level

dw dry weight

EC Effective Concentration

IATA International Air Transport Association

IMDG International Maritime Dangerous Goods

LC Lethal Concentration

LD Lethal Dose

m.w. molecular weight

PBT Persistent, Bioaccumulative and Toxic

PNEC Predicted No Effect Concentration

OECD Organisation / Office for Economic Co-operation and Development

STEL Short Term Exposure Limit

SVHC Substance of Very High Concern

TLV Threshold Limit Value

TWA Time Weighted Average

vPvB very Persistent, very Bioaccumulative and toxic

WGK Wassergefährdungsklasse (Water hazard class)

#### NOTICE TO USERS

The information contained in this sheet are based on the knowledge available at the date of the preparation of this sheet.

The user must be aware of the possible risks associated with the use of the product, other than that for which the product is supplied. The sheet does not exonerate the user from knowing and applying all the regulations governing its activities. The set of regulations mentioned is simply to help the user to fulfill its obligations regarding the use of hazardous products.

This sheet does not exonerate the user from other legal obligations than those mentioned and from rules regulating possession and use of the product, since the user is the only responsible.

\*\*\* This sheet supersedes all previous editions.