

Material Safety Data Sheet

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

K-FLEX K-FIRE SEALANT A

1 IDENTIFICATION OF THE ARTICLE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product form : Mixture

Trade name : K-FLEX K-FIRE SEALANT A

Type of product : Sealants

Product group : Trade product

Trade code: isol027f

1.2 Relevant identified uses of the article/mixture and uses advised against

Main use category : Professional use

Industrial/Professional use spec : For professional use only

Use of the substance/mixture : Barrier (Sealant)

Uses advised against

No additional information available

1.3 Details of the supplier of the information sheet

Distributor:

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

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/>

2 HAZARDS IDENTIFICATION

2.1 Classification of the article

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU > 2015: According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

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2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH208 - Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one(2634-33-5), reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

2.3 Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Article/Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium carbonate	(CAS-No.) 471-34-1 (EC-No.) 207-439-9	30-50	Not classified
Aluminium Hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7 (REACH-no) 01-2119529246-39	10-30	Not classified

4 FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects : Immediate effects can be expected after short term exposure.

Symptoms/effects after inhalation : May cause irritation or asthma-like symptoms.

Symptoms/effects after skin contact : May cause irritation to skin.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : May cause irritation to the digestive tract.

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

5 FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media
Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire : Toxic fumes may be released.
- 5.3 Advice for fire-fighters
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
Emergency procedures : Ventilate spillage area.
Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- 6.2 Environmental precautions
Avoid release to the environment.
- 6.3 Methods and material for containment and cleaning up
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.
- 6.4 Reference to other sections
For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

7 HANDLING AND STORAGE

- 7.1 Precautions for safe handling
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product
- 7.2 Conditions for safe storage, including any incompatibilities
Storage conditions : Store in a well-ventilated place. Keep cool.

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7.3 Specific end use(s)

No additional information available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Calcium carbonate (471-34-1)	
Local name	Calcium carbonate (Limestone, Marble)
WEL TWA (mg/m ³)	10 mg/m ³ total inhalable 4 mg/m ³ respirable
WEL STEL (mg/m ³)	4 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Aluminium Hydroxide (21645-51-2)	
Local name	Calcium carbonate (Limestone, Marble)
WEL TWA (mg/m ³)	10 mg/m ³
WEL STEL (mg/m ³)	4 mg/m ³

8.2 Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Dust formation: dust mask. Gloves.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

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Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Paste.

Colour : white.

Odour : No data available

Odour threshold : No data available

pH : 6.5 – 9

Relative evaporation rate (butylacetate=1) : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Not applicable

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.56 – 1.66 g/cm³

Solubility : No data available

Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : 300000 – 900000 cP

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

9.2 Other information

No additional information available

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10 STABILITY AND REACTIVITY

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5 Incompatible materials

Oxidizing agent. Strong acids.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Calcium carbonate (471-34-1)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LC50 Inhalation - Rat	> 3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

Aluminium Hydroxide (21645-51-2)	
LD50 oral rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 2.3 mg/l

Skin corrosion/irritation : Not classified pH: 6.5 – 9

Serious eye damage/irritation : Not classified pH: 6.5 – 9

Respiratory or skin sensitisation : Not classified

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Aluminium Hydroxide (21645-51-2)	
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Calcium carbonate (471-34-1)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard : Not classified

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Not classified

Not rapidly degradable

Calcium carbonate (471-34-1)	
LC50 fish 1	> 10000
EC50 Daphnia 1	> 1000
EC50 72h algae (1)	> 200 mg/l

12.2 Persistence and degradability

No additional information available

12.3 Bioaccumulative potential

Bioaccumulative potential	Not potentially bioaccumulable.
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Calcium carbonate (471-34-1)	
Partition coefficient n-octanol/water (Log Pow)	< 1

12.4 Mobility in soil

Ecology - soil	Readily absorbed into soil.
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12.5 Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

12.6 Other adverse effects

No additional information available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

14 TRANSPORT INFORMATION

14.1 UN number

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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No supplementary information available

14.2 UN proper shipping name

N.A.

14.3 Transport hazard class(es)

N.A.

14.4 Packing Group

N.A.

14.5 Environmental hazards

N.A.

14.6 Special Precautions for User

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N.A.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the article/mixture

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.2 Chemical Safety Assessment

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No chemical safety assessment has been carried out.

16 OTHER INFORMATION

Abbreviations and acronyms:

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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

ATE Acute Toxicity Estimate

BLV Biological limit value

CAS-No. Chemical Abstract Service number

CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

DMEL Derived Minimal Effect level

DNEL Derived-No Effect Level

EC50 Median effective concentration

EC-No. European Community number

EN European Standard

IATA International Air Transport Association

IMDG International Maritime Dangerous Goods

LC50 Median lethal concentration

LD50 Median lethal dose

LOAEL Lowest Observed Adverse Effect Level

NOAEC No-Observed Adverse Effect Concentration

NOAEL No-Observed Adverse Effect Level

NOEC No-Observed Effect Concentration

OEL Occupational Exposure Limit

PBT Persistent Bioaccumulative Toxic

PNEC Predicted No-Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS Safety Data Sheet

vPvB Very Persistent and Very Bioaccumulative

WGK Water Hazard Class

Full text of H- and EUH-statements:

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one(2634-33-5), reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

EUH210 Safety data sheet available on request.

The classification complies with : ATP 12

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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