

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

Printing date 12.07.2018

Version number 14

Revision: 12.07.2018

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

· **1.1 Product identifier**

· **Trade name:** K-FLEX K-420

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

No further relevant information available.

· **Application of the substance / the mixture** Adhesives

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

L'Isolante K-FLEX S.p.A.

Via Don Locatelli, 35 20877 Roncello (MB) ITALY

tel. +39 039 6824.1

e-mail: Kflex-Reach@isolante.com

· **Further information obtainable from:** R& D Dept.

· **1.4 Emergency telephone number:**

Tel. +39 039 6824.1 (9.00 - 17.00)

ITALIA Centro Antiveleeni

Ospedale Niguarda "Ca' Granda" MILANO tel. 02/66101029; Fondazione Maugeri - Clinica del lavoro e

della Riabilitazione PAVIA tel. 0382/24444; Centro Documentazione Tossicologica - Università degli Studi

PADOVA tel. 049/8275078; Centro Antiveleeni Istituto Scientifico "G. Gaslini" GENOVA tel. 010/5636245;

Centro Antiveleeni Azienda Ospedaliera "Careggi" FIRENZE tel. 055/4277328; Centro Antiveleeni

"Policlinico Gemelli" ROMA tel. 06/3054343; Centro Antiveleeni Università degli Studi di Roma "La

Sapienza" ROMA tel. 06/49970698; Centro Antiveleeni Azienda Ospedaliera "A. Cardarelli" NAPOLI tel.

081/7472870; Centro antiveleeni Azienda Ospedaliera Universitaria FOGGIA tel. 0881/731111

AUSTRIA Vergiftungsinformationszentrale +43 1 406 43 43

BELGIUM Centre Antipoisons-Antigifcentrum +32 30245245

BULGARIA National Toxicology Centre at National Clinical Toxicology Centre +359 2 9154 233

CROATIA Poison Control Centre Zagreb +385 1 2348342

CECH REPUBLIC Toxicological Information Centre + 420224919 293

DENMARK Poison Information Centre n +45 82 12 12 12

ESTONIA Estonian Poison Information centre +372 626 93 90

FINLAND Finnish Poison Information Centre +358 9 471977

FRANCE Centre Antipoison et de Toxicovigilance de Angers +33 2 41 35 33 30

HUNGARY Health Toxicology Information Service +36 80 20 11 99

IRELAND Poison Information Centre of Ireland +353 1 809 2166

LATVIA Valsts Toksikologijas centrs + 371 67042473

LITHUANIA Lithuania Poison Control and Information Bureau +370 5 236 20 52

NORGE Giftnformasjonen : 22 59 13 00 (døgnåpen)

PORTUGAL CIAV Centro de Informacao Antiveleenos +351 808 250 143

SLOVAKIA National Toxicological Information Center +421 2 54 774 166

POLAND Informacja toksykologiczna w Polsce +48 42 631 47 24 (czynna 7:00-15:00)

SPAIN Instituto Nacional de Toxicologia +34 156 20420

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

· **2.2 Label elements**· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**

GHS02 GHS07 GHS09

· **Signal word Danger**· **Hazard-determining components of labelling:**

Solvent naphtha (petroleum), hydrotreated light naphthenic; Hydrocarbons C6-C7 isoalkanes cyclics < 5% n-hexane (REACH Registered Name)

· **Hazard statements**

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P280 Wear eye protection / face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Contains Rosin. May produce an allergic reaction.

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

* **SECTION 3: Composition/information on ingredients**· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:		
CAS: 92062-15-2 EC number: 926-605-8 Reg.nr.: 01-2119486291-36	Solvent naphtha (petroleum), hydrotreated light naphthenic; Hydrocarbons C6-C7 isoalkanes cyclics < 5% n-hexane (REACH Registered Name)	40-60%
	⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	Ethyl acetate	15-25%
	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 64742-49-0 EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Naphtha (petroleum), hydrotreated light; hydrocarbons C6 isoalkanes < 5% n-hexane (REACH Registered Name)	5-15%
	⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone	5-15%
	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 8050-09-7 EINECS: 232-475-7 Reg.nr.: 01-2119480418-32	Rosin	0.1-0.5%
	⚠ Skin Sens. 1, H317	
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119555270-46	Butylated hydroxytoluene	0.05-0.2%
	⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	
· UVCB (Unknown Variable Complex reaction product or Biological Origin)		
64742-49-0	Naphtha (petroleum), hydrotreated light; hydrocarbons C6 isoalkanes < 5% n-hexane (REACH Registered Name)	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
Water
Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

141-78-6 Ethyl acetate

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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67-64-1 Acetone

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
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8050-09-7 Rosin

WEL	Short-term value: 0.15 mg/m ³ Long-term value: 0.05 mg/m ³
	Sen

- **DNELs**

141-78-6 Ethyl acetate

Dermal	Long term-Systemic effect	63 mg/kg (workers)
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<i>Inhalative</i>	<i>Long term-Systemic effect</i>	1,468 mg/m ³ (workers)
	<i>Long term-Local effect</i>	1,468 mg/m ³ (workers)
64742-49-0 Naphtha (petroleum), hydrotreated light; hydrocarbons C6 isoalkanes < 5% n-hexane (REACH Registered Name)		
<i>Dermal</i>	<i>Long term-Systemic effect</i>	13,964 mg/kg (workers)
<i>Inhalative</i>	<i>Long term-Local effect</i>	5,306 mg/m ³ (workers)
67-64-1 Acetone		
<i>Dermal</i>	<i>Long term-Systemic effect</i>	186 mg/kg (workers)
<i>Inhalative</i>	<i>Long term-Local effect</i>	2,420 mg/m ³ (workers)

· **PNECs****141-78-6 Ethyl acetate**

<i>fresh water</i>	0.26 mg/l (frs) 0.26 mg/l (water)
<i>marine water</i>	26 mg/l (mar) 26 mg/l (water)
<i>Intermittent release</i>	650 mg/l (water)

67-64-1 Acetone

<i>fresh water</i>	10.6 mg/l (water)
<i>marine water</i>	1.06 mg/l (water)
<i>Intermittent release</i>	21 mg/l (water)
<i>sediment-marine water</i>	3.04 mg/l (water)
<i>sediment-fresh water</i>	30.4 mg/l (water)
<i>sewage treatment plant</i>	100 mg/l (water)
<i>Soil</i>	29.5 mg/kg (soil)

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Filter A/P2· **Protection of hands:**

Rubber gloves



Protective gloves

· **Material of gloves** Butyl rubber, BR· **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 240 minutes (Permeation according to EN 374 Part 3: Level 5).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Colour:	Orange
Odour:	Characteristic

· Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	36 °C

· Flash point: -20 °C

· Ignition temperature: >200 °C

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower:	1.2 Vol %
Upper:	11.5 Vol %

· Vapour pressure at 20 °C: 110 hPa

· Density: Not determined.

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Viscosity:

Dynamic at 20 °C:	700 mPas
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	79.4 %
Water:	0.0 %
VOC (EU):	793.8 g/l

· Solids content: 20.6 %

· 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity: No further relevant information available.

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions: No dangerous reactions known.

· 10.4 Conditions to avoid: No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

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· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

141-78-6 Ethyl acetate

Oral	LD50	4,935 mg/kg (rabbit)
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Inhalative	LC50/4 h	1,600 mg/l (rat)
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67-64-1 Acetone

Oral	LD50	5,800 mg/kg (rat)
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Dermal	LD50	20,000 mg/kg (rabbit)
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128-37-0 Butylated hydroxytoluene

Oral	LD50	890 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

141-78-6 Ethyl acetate

EC50/48h	165,000 µg/l (daphnia magna)
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67-64-1 Acetone

EC50/48h	8,800,000 µg/l (daphnia magna)
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- **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential**

141-78-6 Ethyl acetate

LogPow	3.0
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64742-49-0 Naphtha (petroleum), hydrotreated light; hydrocarbons C6 isoalkanes < 5% n-hexane (REACH Registered Name)

LogPow	3.6
--------	-----

- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

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Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1133

· **14.2 UN proper shipping name**

· **ADR**

1133 ADHESIVES, special provision 640D,
ENVIRONMENTALLY HAZARDOUS

· **IMDG**

ADHESIVES, MARINE POLLUTANT

· **IATA**

ADHESIVES

· **14.3 Transport hazard class(es)**

· **ADR, IMDG**



· **Class**

3 Flammable liquids.

· **Label**

3

· **IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**

· **ADR, IMDG, IATA**

II

· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances:

· **Marine pollutant:**

Yes

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Danger code (Kemler):**

33

· **EMS Number:**

F-E,S-D

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· Stowage Category	B
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1133 ADHESIVES, SPECIAL PROVISION 640D, 3, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	79.4

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** R&D Dept.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**

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