Printing date 08.06.2021 Version: 7 Revision: 08.06.2021

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

- · 1.1 Product identifier
- · Trade name: SILKON K
- · Article number: 97660001
- · **UFI:** JP7T-REY7-529S-H47T
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Life cycle stages

IS Use at industrial Sites

PW Widespread use by professional workers

· Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- Product category PC24 Lubricants, greases, release products
- · Process category

PROC7 Industrial spraying PROC11 Non industrial spraying

- · Application of the substance / the mixture Lubricant
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

ZEP ITALIA SRL

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20123 Milano (MI) - Italy;

Via Nettunense Km. 25.000

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· 1.4 Emergency telephone number:

NHS +44 0845 46 47 (England or Wales); +44 08454 24 24 24 (Scotland)

emergency number (europe): 112

## SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

(Contd. on page 2)

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May be fatal if swallowed and enters airways. Asp. Tox. 1 H304 Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · 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:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

# SECTION 3: Composition/information on ingredients

- · Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	25-50%
Reg.nr.: 01-2119475515-33-XXXX	♦ Flam. Liq. 2, H225	
	<b>♦</b> Asp. Tox. 1, H304	
	🖎 Aquatic Chronic 2, H411	
	🔖 Skin Irrit. 2, H315; STOT SE 3, H336	

Additional information:

Ingredients according to Detergents Regulation 648/2004/EC

Aliphatic hydrocarbons ≥30%

· 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:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

If skin irritation continues, consult a doctor.

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.

Do not induce vomiting; call for medical help immediately.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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• 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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Can form explosive gas-air mixtures.

- 5.3 Advice for firefighters
- Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Wear self-contained respiratory protective device.

· Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

Ensure adequate ventilation

Keep people at a distance and stay on the windward side.

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

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:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

· 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

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

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

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Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics		
Oral	DNEL Long term-systemic	149 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	149 mg/kg human/day (consumer)
		300 mg/kg human/day (worker)
Inhalative	DNEL Long term-systemic mg/m3	477 mg/m3 (consumer)
		2,085 mg/m3 (worker)

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

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

Do not eat, drink, smoke or sniff while working.

- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:



Protective gloves

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- · Not suitable are gloves made of the following materials: Strong material gloves
- · Body protection: Protective work clothing

SE	CHON 9:	Physica	u ana c	enemicai	properii	ES
						_
9.1	Information	on basic	physical	and chemi	ical proper	ties

· General Information

· Appearance:

Form: Colour: Odour:

Aerosol Colourless Characteristic Not determined.

· pH-value:

Not determined.

Undetermined.

· Change in condition

· Odour threshold:

Melting point/freezing point:

Initial boiling point and boiling range: Not applicable, as aerosol.

· Flash point: <0 °C

· Flammability (solid, gas): Not applicable.

• Ignition temperature: 215 °C

• Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

Not determined.

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	(Contd. of pag
Explosion limits:	
Lower:	1.5 Vol %
Upper:	10.9 Vol %
Vapour pressure at 20 °C:	3,500 hPa
Density at 20 °C:	0.593 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	92.0 %
EÜ-VOC:	$290.6  \mathrm{g/l}$
EU-VOC	49.00 %
Swiss VOC:	49.00 %
Solids content:	0.0 %
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.
- · 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.
- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · CMR effects (carcinogenity, 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

May be fatal if swallowed and enters airways.

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# SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

LC50 / 96 h >13.4 mg/ltr (Oncorhynchus mykiss (Rainbow trout))

EC 50 / 48 h 3 mg/ltr (Daphnia magna (water flea))

- · 12.2 Persistence and degradability Easily biodegradable
- · 12.3 Bioaccumulative potential Does not accumulate in organisms
- · 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Harmful to fish
- Additional ecological information:
- · General notes:

Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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 Disposal must be made according to official regulations

_	ean waste catalogue
HP3	Flammable

HP4 Irritant - skin irritation and eye damage

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP14 Ecotoxic

- · Uncleaned packaging:
- · Recommendation: Disposal in accordance with administrative provisions

# SECTION 14: Transport information

- · 14.1 UN-Number
- · ADR, IMDG, IATA

UN1950

· 14.2 UN proper shipping name

 $\cdot$  ADR

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (HEPTANES), MARINE POLLUTANT

· IMDG

 $\cdot$  IATA

AEROSOLS, flammable

- · 14.3 Transport hazard class(es)
- $\cdot ADR$





· Class
 · Label
 2 5F Gases.
 2.1

· IMDG





· Class 2.1

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Trade name: SILKON K

Label	(Contd. of page 2.1
Label LATA	2.1
IAIA	
2	
Class	2.1
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Product contains environmentally hazardous substances:
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Marine pollutant:	Yes
G '1 1' (4DD)	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Gases.
Hazard identification number (Kemler code):	- F D C H
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre:
	Category A. For AEROSOLS with a capacity above 1 litre:
	Category B. For WASTE AEROSOLS: Category C, Clear of
	living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation Code	Segregation as for class 9. Stow "separated from" class 1 excep
	for division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class 2.
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to Annex II of M	
the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E0
T	Not permitted as Excepted Quantity
Transport category	<i>2</i>
Tunnel restriction code	D
IMDG	-
Limited quantities (LQ)	
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity

# SECTION 15: Regulatory information

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

Reg. (EC) n. 1272/2008 - CLP;

Reg. (EC) n. 2015/830 annex II of REACH;

Dir. 06/08 ADR – RID - IMDG - IATA;

Dir. 12/18 (Seveso III);

Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

Reg (EC) n. 648/2004 - Detergents

· Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms

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### · Signal word Danger

### · Hazard-determining components of labelling:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

### · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

May cause drowsiness or dizziness. H336

H411 Toxic to aquatic life with long lasting effects.

### · Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### · Directive 2012/18/EU

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

### · Seveso category

E2 Hazardous to the Aquatic Environment

P3b FLAMMABLE AEROSOLS

- $\cdot$  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
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

### · REGULATION (EU) 2019/1148

# Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

## · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	49.0

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has 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.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

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

### Department issuing SDS:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710 B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

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· Contact:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710 B: Tel: +32 2 347 0117 Fax: +32 2 347 1395 IT: Tel: +39 069 266 91Fax: +39 06.927 470 61 UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

### Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative WELL: The highest acceptable concentration IOELV: Indicative occupational exposure limit values Aerosol 1: Aerosols – Category 1

Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Asp. Tox. 1: Aspiration 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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## Annex: Exposure scenario

- · Short title of the exposure scenario For the finished product.
- · Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- · Product category PC24 Lubricants, greases, release products
- · Process category

PROC7 Industrial spraying PROC11 Non industrial spraying

- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Aerosol
- · Concentration of the substance in the mixture The substance is main component.
- · Used amount per time or activity According to directions for use.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure Use only on hard ground.
- Other operational conditions affecting worker exposure

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Avoid contact with the skin.

- · Other operational conditions affecting consumer exposure Keep out of the reach of children.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures

Provide explosion-proof electrical equipment.

Use product only in enclosed systems.

Ensure that suitable extractors are available on processing machines

### Personal protective measures

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the skin.

Protective gloves

## · Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

- · Environmental protection measures
- · Water Do not allow to reach sewage system.
- · Soil Prevent contamination of soil.
- · Disposal measures

Disposal in accordance with administrative provisions

Ensure that waste is collected and contained.

- Disposal procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.