SAFETY DATA SHEET

www.zettex.com

according to 1907/2006/EC, Article 31

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Version: 23

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SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Zettex Chain Gel · Article number: · 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 Grease · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Zettex Europe BV Plaza 20, 4782 SK Moerdijk The Netherlands +31(0)888-938839 info@zettex.nl www.zettex.nl · 1.4 Emergency telephone number: Zettex Europe BV 031 (0) 888 938 839 (Mon-Fri 09:00-17:00) **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. GHS07 STOT SE 3 H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. Asp. Tox. 1 Aquatic Chronic 3 H412 Harmful 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 · Signal word Danger · Hazard-determining components of labelling: Pentane Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics · Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects. · Precautionary statements P101 If medical advice is needed, have product container or label at hand. (Contd. on page 2)

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P102	Keep out of reach of children.	
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- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P261 Avoid breathing mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- Buildup of explosive mixtures possible without sufficient ventilation.
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Active substance with propellant

· Dangerous components:		
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8)) Flam. Gas 1, H220; Press. Gas (Comp.), H280	25-<50%
CAS: 109-66-0 EINECS: 203-692-4 Reg.nr.: 01-2119459286-30	Pentane Flam. Liq. 1, H224; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	10-<25%
CAS: 64742-48-9 EC number: 919-857-5 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	2.5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8)) Flam. Gas 1, H220; Press. Gas (Comp.), H280	2.5-<10%

· Additional information:

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: 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. (Contd. of page 2)

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- Water haze Fire-extinguishing powder Carbon dioxide
- Alcohol resistant foam
- For safety reasons unsuitable extinguishing agents: 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: Mount respiratory protective device.

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:
- Do not allow product to reach sewage system or any water course.
- 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: 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.
- \cdot Information about fire and explosion protection:
- Do not spray onto a naked flame or any incandescent material.
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.

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: Store in a cool location.
- Observe official regulations on storing packagings with pressurised containers.
- · Information about storage in one common storage facility:
- Observe official regulations on storing packagings with pressurised containers.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
- 7.3 Specific end use(s) No further relevant information available.

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SECTIO	SECTION 8: Exposure controls/personal protection			
	• Additional information about design of technical facilities: No further data; see item 7.			
	ol parameters ts with limit values that red	uire monitoring at the workplace:		
0	butane (containing $< 0.1\%$	· · ·		
	rt-term value: 1810 mg/m^3 , 7			
Lon	g-term value: 1450 mg/m ³ , 6	500 ppm		
	c (if more than 0.1% of buta-	-1.3-diene)		
109-66-0 I				
	g-term value: 1800 mg/m ³ , 6	600 ppm		
74-98-6 pi	-			
	g-term value: 1800 mg/m ³			
	obutane (containing < 0,1 4	% butadiene (203-450-8))		
	rt-term value: 2400 mg/m ³ g-term value: 1900 mg/m ³			
· DNELs				
109-66-0 I	Pentane			
Oral	DNEL Long term-systemic	214 mg/kg bw/day (Consumer)		
Dermal	DNEL Long term-systemic	214 mg/kg bw/day (Consumer)		
		432 mg/kg bw/day (Worker)		
Inhalative	DNEL Long term-systemic	643 mg/m3 (Consumer)		
		3000 mg/m3 (Worker)		
	64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics			
Oral	<i>c</i> ,	125 mg/kg bw/day (Consumer)		
Dermal	DNEL Long term-systemic	125 mg/kg bw/day (Consumer)		
		208 mg/kg bw/day (Worker)		
Inhalative	DNEL Long term-systemic			
		871 mg/m3 (Worker)		
· Additiona	• 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.				
Do not inhale gases / fumes / aerosols.				
Decimate				

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX/P2

Filter A/P2

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A2P2

· Protection of hands:

Wear gloves for the protection against chemicals according to EN 374



Protective gloves

Solvent resistant gloves Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 5)

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· 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.

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.5 mm

· Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made.

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

· Eye protection:

Safety glasses



Tightly sealed goggles

• Body protection: Use protective suit. (EN-13034/6)

9.1 Information on basic physical and chemical properties		
General Information		
Appearance:		
Form:	Aerosol	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	-44.5 °C	
Flash point:	-97 °C	
Flammability (solid, gas):	Not applicable.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product is not explosive. However, formation of explosive air/	
	vapour mixtures are possible.	
	Not determined.	
Explosion limits:		
Lower:	0.6 Vol %	
Upper:	10.9 Vol %	
Vapour pressure at 20 °C:	2800 hPa	
Density at 20 °C:	0.648 g/cm ³	
Relative density	Not determined.	
Vapour density	Not determined.	

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· Evaporation rate	Not applicable.
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	81.9 %
Solids content:	17.5 %
• 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.
- \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.
- \cdot 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.

 \cdot LD/LC50 values relevant for classification:

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Oral	LD50	>5000 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

Inhalative LC50 (4h) 4951 mg/m3 (rat)

· Primary irritant effect:

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

• 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.

· 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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Aquatic toxicit	ty:	
109-66-0 Penta	ane	
NOEC (72h)	7.51 mg/l (Pseudokirchneriella subcapitata)	
EC50 (72h)	10.7 mg/l (Pseudokirchneriella subcapitata)	
LC50/96h	4.26 mg/l (Oncorhynchus mykiss (96h))	
EC50/48h	2.7 mg/l (Daphnia magna)	
64742-48-9 Ну	/drocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
EL0 (48h)	1000 mg/l (Daphnia magna)	
NOELR (72h)	100 mg/l (Pseudokirchneriella subcapitata)	
EL50 (72h)	>1000 mg/l (Pseudokirchneriella subcapitata)	
LL50 (96h)	>1000 mg/l (Oncorhynchus mykiss (96h))	
12.4 Mobility i Ecotoxical effe Remark: Harm Additional eco General notes: Water hazard c Do not allow pr Danger to drink Harmful to aqu 12.5 Results of PBT: Not appli vPvB: Not app	nful to fish blogical information: lass 2 (German Regulation) (Self-assessment): hazardous for water roduct to reach ground water, water course or sewage system. king water if even small quantities leak into the ground. atic organisms f PBT and vPvB assessment icable.	

· 13.1 Waste treatment methods

· Recommendation

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

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

· 14.1 UN-Number		
· ADR, ADN, IMDG, IATA	UN1950	
· 14.2 UN proper shipping name		
ADR, ADN	UN1950 AEROSOLS	
· IMDG	AEROSOLS	
·IATA	AEROSOLS, flammable	

[·] Uncleaned packaging:

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Class 2 5F Gases. Label 2.1 ADN 2 5F IMDG, LATA 2 5F IMDG, LATA 2 5F Class 2.1 Label 2.1 IADN 2.1 Label 2.1 Label 2.1 Label 2.1 IAA Packing group 2.1 ADR, IMDG, IATA Void H44 Packing group Void ADR, IMDG, IATA Void H45 Environmental hazards: Marine pollutant: Marine pollutant: No H46 Special precautions for user Warning: Gases. Panger code (Kemler): - FDS Number: FD S-U Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a capacity of 1 Itre: Category A. For AEROSOLS with a capacity of 1 Itre: Category D. For WASTE AEROSOLS: with a capacity about 1 litre: Segregation as for the appropriate subdivision of class 1 except for division 1.4 extended from sources of heat. Stowage Code SG69 For AEROSOLS with a maximum capacity of 1 Itre: Segregation Code Not applicable. Transport i	•	
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Trade name: Zettex Chain Gel

· UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

 \cdot 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 P3a FLAMMABLE AEROSOLS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements $150\ t$
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:

Class Share in %

NK 75-<100

- · VOC-CH 81.90 %
- · VOC-EU 530.7 g/l
- · Danish MAL Code 5-3
- 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

- H220 Extremely flammable gas.
- H224 Extremely flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- · Department issuing SDS: Research & Development
- · Contact:
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases - Category 1 Aerosol 1: Aerosols - Category 1 Press. Gas (Comp.): Gases under pressure - Compressed gas Flam. Liq. 1: Flammable liquids – Category 1 Flam. Liq. 3: Flammable liquids – Category 3 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Asp. Tox. 1: Aspiration hazard - Category 1

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Trade name: Zettex Chain Gel

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 (Contd. of page 9)

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