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

· 1.1 Product identifier

· Trade name: <u>beko B10 Universal-Öl (Spray)</u>

• **UFI:** K0QV-20FW-Y009-1S4E

· 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 Lubricating oil

· 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: beko GmbH Rappenfeldstr. 5 D-86653 Monheim +49 (0) 90 91 / 9 08 98-0 info@beko-group.com www.beko-group.com

• Further information obtainable from:

Vertrieb / Produktsicherheit +49 (0) 90 91 / 9 08 98-0

info@beko-group.com

· 1.4 Emergency telephone number: Poison Control Center Mainz - 24 hour – phone: +49 (0) 6131/19240

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.	
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.	
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.	
			1

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The labelling of an aspiration hazard (Asp. Tox. 1 H304) is not required for aerosols and containers with a sealed spray attachmend (Regulation (EC) 1272/2008, Annex I, 1.3.3).

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

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

Hydrocarbons, C6, isoalkanes, <5% n-hexane

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.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

- P102 Keep out of reach of children.
- 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.

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		(Contd. of page 1)
P260	Do not breathe vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.	
P302+P3	352 IF ON SKIN: Wash with plenty of water.	
P312	Call a POISON CENTER/doctor if you feel unwell.	
P410+P4	Al2 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	
P501	Dispose of contents / container as special waste.	
· 2.3 Other	r hazards	
· Results o	f PBT and vPvB assessment	
· PBT: No	t applicable.	

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description:

Mixture of substances listed below with nonhazardous compounds or compounds with no duty to declare.

EC number: 918-167-1	Kohlenwasserstoffe, C11-C12, iso-Alkane, <2% Aromaten	25-50%
Reg.nr.: 01-2119472146-39	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; Aquatic Chronic 4, H413	
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane, pure Flam. Gas 1, H220; Press. Gas (Comp.), H280	10-25%
CAS: 64742-49-0 EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; OSkin Irrit. 2, H315; STOT SE 3, H336	≥2.5-<10%
CAS: 92045-53-9 EC number: 927-510-4 Reg.nr.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, isoalkanes,cyclics. Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥2.5-<10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane (<0,1% butadiene) Flam. Gas 1, H220; Press. Gas (Comp.), H280	2.5-10%
CAS: 64742-49-0 EC number: 926-605-8 Reg.nr.: 01-2119486291-36	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%n-hexane Asp. Tox. 1, H304; 🔗 Aquatic Chronic 2, H411; 🔿 STOT SE 3, H336	≥0.25-<2.5%

· 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

• General information:

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Wash with water and soap

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• 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.

<u>SECTION 5: Firefighting measures</u>

• 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 Risk of bursting in case of fire heat
- 5.3 Advice for firefighters
- Protective equipment: Wear fully protective suit.

· Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Product forms slippery surface when combined with water. Particular danger of slipping on leaked/spilled product. Avoid contact with skin / eyes and inhalation. Ensure adequate ventilation Keep away from ignition sources.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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. Open and handle receptacle with care.

· Information about fire - and explosion protection:

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.

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

· 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: Store away from oxidising agents.

- *Further information about storage conditions:* Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
- Recommended storage temperature: 15 35°C, max. 50°C
- Storage class: German storage class: 2B (Aerosols)

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· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

 $(Contd. \ of \ page \ 3)$

· Additional	l information ab	out design of technical facilities: No fi	ırther data; see item 7.
· 8.1 Contro	l parameters		
· Ingredient	ts with limit valu	es that require monitoring at the work	splace:
106-97-8 b	butane, pure		
WEL (Gree	at Britain)	Short-term value: 1810 mg/m ³ , 750 pp	
		Long-term value: 1450 mg/m ³ , 600 pp	
		Carc (if more than 0.1% of buta-1.3-d	iene)
		, C6, isoalkanes, <5% n-hexane	
	, , , , , , , , , , , , , , , , , , ,	Long-term value: 1400 mg/m ³	
	•	, C7, n-alkanes, isoalkanes,cyclics.	
	· · · · · ·	Long-term value: 1400 mg/m³	
	•	, C6-C7, isoalkanes, cyclics,<5%n-hex	sane
	, , , , , , , , , , , , , , , , , , ,	Long-term value: 1400 mg/m³	
110-54-3 n			
WEL (Gree	at Britain)	Long-term value: 72 mg/m ³ , 20 ppm	
IOELV (E)	U)	Long-term value: 72 mg/m³, 20 ppm	
· DNELs			
64742-49-	0 Hydrocarbons	, C6, isoalkanes, <5% n-hexane	
Oral	DNEL Endverb	raucher/ Consumers /Consommateur	1,301 mg/kg BW/ day (.)
Dermal	DNEL - Endver	braucher/ Consumers /Consommateur	1,377 mg/kg BW /day (.)
	DNEL Arbeiter	r / Workers/ Travailleur	13,964 mg/kg BW /day (.)
Inhalative	DNEL Endverb	raucher/ Consumers /Consommateur	1,137 mg /m3 (.)
	DNEL Arbeiter	/ Workers/ Travailleur	5,306 mg /m3 (.)
92045-53-	9 Hydrocarbons	, C7, n-alkanes, isoalkanes,cyclics.	
Oral	DNEL Endverb	raucher/ Consumers /Consommateur	149 mg/kg BW/ day (hum)
Dermal	DNEL - Endver	braucher/ Consumers /Consommateur	149 mg/kg BW /day (.)
	DNEL Arbeiter	·/Workers/Travailleur	300 mg/kg BW /day (.)
Inhalative	DNEL Endverb	raucher/ Consumers /Consommateur	477 mg /m3 (.)
	DNEL Arbeiter	/ Workers/ Travailleur	2,085 mg /m3 (.)
64742-49-	0 Hydrocarbons	, C6-C7, isoalkanes, cyclics,<5%n-hex	
Oral	DNEL Endverb	raucher/ Consumers /Consommateur	1,301 mg/kg BW/ day (.)
Dermal	DNEL - Endver	braucher/ Consumers /Consommateur	1,377 mg/kg BW /day (.)
		r / Workers/ Travailleur	13,964 mg/kg BW /day (.)
Inhalative		raucher/ Consumers /Consommateur	1,131 mg /m3 (.)
		/Workers/Travailleur	5,306 mg /m3 (.)
4 1 1:4:			

· 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.

Do not carry product impregnated cleaning cloths in trouser pockets.

Avoid contact with the eyes and skin.

• Respiratory protection: Not necessary if room is well-ventilated.

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· Protection of hands:

· Material of gloves If contamination is possible, use gloves made of nitrile according EN 374

• **Penetration time of glove material** > $\frac{1}{480}$ min / 0,4 mm thickness

• Eye protection: Safety glasses in case of spittings

9.1 Information on basic physical an	nd chemical properties	
· General Information		
Appearance: Form:	Aerosol	
Form: Colour:	Yellowish	
Odour:	Solvent-like	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling ra	nge: -44 °C	
	value concers to propellant	
Flash point:	-97 °C	
-	concerns to propellant	
Ignition temperature:	250 °C	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Risk of bursting at temperatures $> 50^{\circ}$ C. Damage of the containe may lead to the formation of explosive mixtures of gas/vapors with air.	
Explosion limits:		
Lower:	1.5 Vol %	
Upper:	8.5 Vol %	
Pressure (20°C)	2.5 - 4.5 bar	
Density at 20 °C:	$0.680 - 0.695 \ g/cm^3$	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Solvent content:		
VOC (EC)	82.20 % = 571,1 g/L	
9.2 Other information	No further relevant information available.	
Additional information	Vapors are heavier than air.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: Risk of bursting at temperatures >50°C.

· 10.3 Possibility of hazardous reactions

By use or incidental release the formation of explosive vapor/air mixtures is possible.

• 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.

• Additional information: Stable for a storage time of min. 24 months

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11.1 Information on to.		
•	available data, the classification criteria are not met.	
LD/LC50 values releva	• •	
	1-C12, iso-Alkane, <2% Aromaten	
Oral LD50	>5,000 mg/kg (rat)	
106-97-8 butane, pure		
Inhalative LC50/4 h	658 mg/l (rat)	
74-98-6 propane		
Inhalative LC50/4 h	>20 mg/l (rat)	
	n 1,443 mg/l (rat)	
75-28-5 isobutane (<0,		
Inhalative LC50/4 h Primary irritant effect:	>20 mg/l (rat)	
CMR effects (carcinogo Germ cell mutagenicity Carcinogenicity Based		
STOT-single exposure May cause drowsiness of	ased on available data, the classification criteria are not met. or dizziness. re Based on available data, the classification criteria are not met. ed and enters airways.	
STOT-single exposure May cause drowsiness of STOT-repeated exposu Aspiration hazard May be fatal if swallows SECTION 12: Ecol 12.1 Toxicity	ased on available data, the classification criteria are not met. or dizziness. re Based on available data, the classification criteria are not met. ed and enters airways.	
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STOT-single exposure May cause drowsiness of STOT-repeated exposu Aspiration hazard May be fatal if swallow SECTION 12: Ecol 12.1 Toxicity Aquatic toxicity: Kohlenwasserstoffe, Cl EC50 >1,000 mg/kg (fi 12.2 Persistence and de 12.3 Bioaccumulative p 12.4 Mobility in soil No Ecotoxical effects: Remark: Harmful to fis Additional ecological in General notes: Harmful to aquatic orgo Water hazard class 2 (C Do not allow product to Danger to drinking wat	ased on available data, the classification criteria are not met. or dizziness. re Based on available data, the classification criteria are not met. ed and enters airways. Cogical information Cogical information Cogical	
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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

empty cans: material recycling

filled cans: remove in accordance with local regulations

· European waste catalogue

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing dangerous substances

· Uncleaned packaging:

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

· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR · IMDG · IATA	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	2 5F Gases. 2.1
· Label · IMDG, IATA	2.1
· Class · Label	2.1 2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Gases.
• EMS Number:	- F-D,S-U
· Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 lit Category A. For AEROSOLS with a capacity above 1 lit Category B. For WASTE AEROSOLS: Category C, Cla of living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 lith Segregation as for class 9. Stow "separated from" clas except for division 1.4.

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	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 An Marpol and the IBC Code	
Transport/Additional information:	
ADR	
Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code Remarks:	1L Code: E0 Not permitted as Excepted Quantity 2 D Transportation as "LIMITED QUANTITIES" accordin 3.4 ADR is possible. Sole marking: Sign for "Limited Quantities" (rhombu with two black edges) Entry in the transportation document: Transportatio according chapter 3.4 ADR Tunnel category "E" in case of a load of 8000 kg (rgros weight) or more.
IMDG Limited quantities (LQ) Excepted quantities (EQ)	IL Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN1950, AEROSOLS, ENVIRONMENTALL HAZARDOUS, 2.1

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

• Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

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

· National regulations:

- · Information about limitation of use:
- *Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.*

Class	Share in %
Ι	0.5
NK	49.9

· 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. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

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Trade name: beko B10 Universal-Öl (Spray) (Contd. of page 8) H280 Contains gas under pressure; may explode if heated. 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. H413 May cause long lasting harmful effects to aquatic life. · 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) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) 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) 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 Press. Gas (Liq.): Gases under pressure - Liquefied gas Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids - Category 3 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 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4 * Data compared to the previous version altered.