Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.03.2023

Version number 1.3 (replaces version 1.2)

Revision: 28.03.2023

SECTION 1: Identification of the substance/mixture and of the company/ undertaking
· 1.1 Product identifier
· Trade name: <u>BOSCH BIO KETTENSÄGEÖL</u>
 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 Only for proper handling. Chain lubricant
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:
Robert Bosch GmbH Power Tools Division DE-70745 Leinfelden-Echterdingen Tel. +49 (0) 180-3335799 hotline Tel. +49 (0) 1801-505010 Fax +49 (0) 1801-505011
 Further information obtainable from: Product safety service 1.4 Emergency telephone number: In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).
SECTION 2: Hazards identification
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the GB CLP regulation.
 • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 Void • Hazard pictograms Void • Signal word Void • Hazard statements Void

- · 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: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:
 - CAS: 68411-46-1 EINECS: 270-128-1 Reg.nr.: 01-2119491299-23 Repr. 2, H361f

Benzenamine, N-phenyl-, reaction products with 2,4,4- 0.1-0.25% trimethylpentene

• 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: No special measures required.
- · 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.

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- · 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: Use fire extinguishing methods suitable to surrounding conditions.
- 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.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

- · 6.2 Environmental precautions: 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).

- 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 No special measures required.

- · Information about fire and explosion protection: No special measures required.
- · 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:
- The recommended storage temperature is (deg.C): ≤50°C
- · Storage class: 10
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- 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			
68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene			
Oral	DNEL/general population/Systemic effects/Long-term	0.04 mg/kg/24h (consumer)	
Dermal	DNEL / Workers / Systemic effects / Long-term	0.08 mg/kg/24h (worker)	
	DNEL/general population/Systemic effects/Long-term	0.04 mg/kg/24h (consumer)	
Inhalative	DNEL / Workers / Systemic effects / Long-term	0.6 mg/m3 (worker)	
	DNEL/general population/Systemic effects/Long-term	0.14 mg/m3 (consumer)	
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Trade name: BOSCH BIO KETTENSÄGEÖL

DNECA		
PNECs 68411-46-1 Benzenamine, N-phenyl-, reac	tion produ	ate with 2.4.4 trimathylaantana
PNEC / Aquatic organisms / Freshwater		0.0338 mg/l (aquatic organisms)
, .		
PNEC / Aquatic organisms / Marine water		0.00338 mg/l (aquatic organisms)
PNEC/Aquatic org/intermittent releases(fresh	,	0.51 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment	•	10 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Sediment (fresh	water)	0.446 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marir	ne water)	0.0446 mg/kg (aquatic organisms)
PNEC / Terrestrial organism / Soil		2.59 mg/kg (terrestrial organisms)
Additional information: The lists valid durin	g the maki	ng were used as basis.
8.2 Exposure controls		
Appropriate engineering controls No furth	er data; se	e section 7.
Individual protection measures, such as p		
General protective and hygienic measures	s:	
Keep away from foodstuffs, beverages and fe		
Wash hands before breaks and at the end of	work.	
Do not inhale gases / fumes / aerosols.		
Respiratory protection: Not necessary if room is well-ventilated.		
Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.		
Hand protection		
The glove material has to be impermeable and resistant to the product/ the substance/ the		
preparation.		
Selection of the glove material on considera	tion of the	penetration times, rates of diffusion and t
Selection of the glove material on considera degradation	tion of the	penetration times, rates of diffusion and t
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	(Contd. of page
Viscosity:	
Kinematic viscosity	65 mm²/s @ 40 °C
Consistency	
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log	
value)	Not determined.
Heat Capacity	
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0.921 g/cm³ (ASTM D 4052)
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance: Form:	Fluid
Important information on protection of hea	
and environment, and on safety.	Dreduct does not present on evaluation becaud
Explosive properties:	Product does not present an explosion hazard.
Solvent separation test:	0.00.0/
VOC (EC)	0.00 %
Change in condition	.
Evaporation rate	Not determined.
Information with regard to physical haza	ard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void

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.

- \cdot 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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Oral

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(Contd. of page 4) • 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

	LD50	5,000 mg/kg (rat)
	NOEL	100 mg/kg/24h (rat)
	NOAEL	25 mg/kg/24h (rat)
	LOEL	125 mg/kg/24h (rat)
,	1 050	2.000 ma/ka (rat)

Dermal LD50 2,000 mg/kg (rat)

· 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.

· 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 Based on available data, the classification criteria are not met.

· 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.
- · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12 1 Toxicity

58411-	46-1 Benzenamine, I	N-phenyl-, reaction products with 2,4,4-trimethylpentene
LC50	100 mg/l/96h (fish)	
LC0	58 mg/l/96h (fish)	
LC100	100 mg/l/96h (fish)	
E <i>C50</i>	0.271-1 g/kg/28d (se	diment)
E <i>C50</i>	100 mg/l/24h (aquati	c invertebrates)
E <i>C50</i>	100 mg/l/72h (algae	/ cyanobacteria)
EC100	100 mg/l/48h (aquati	c invertebrates)
E <i>C50</i>	51 mg/l/48h (aquatic	invertebrates)
NOEC	0.03125-1 g/kg/28d	(sediment)
	0.5-1 g/kg/28d (terre	str. macroorganisms (- arthropods))
NOEC	10-100 mg/l/72h (alg	ae / cyanobacteria)
NOEC	10 mg/l/48h (aquatic	invertebrates)
LOEC	0.0625-1 mg/l/21d (s	ediment)
	1 mg/l/21d (terrestr.	macroorganisms (- arthropods))
12.2 Pe	ersistence and degra	dability No further relevant information available.
12.3 Bi	oaccumulative pote	ntial
58411-	46-1 Benzenamine, l	N-phenyl-, reaction products with 2,4,4-trimethylpentene

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Bioconcentration factor (BCF)	1.73 BCF (Bioaccumulation)
Biodegradability	94.4 % (28d) (Biodegradability) (OECD 301 B)
• 12.4 Mobility in soil No furthe	r relevant information available.
12.5 Results of PBT and vPv	B assessment
· PBT: Not applicable.	
vPvB: Not applicable.	
12.6 Endocrine disrupting pl	roperties
The product does not contain s	substances with endocrine disrupting properties.
12.7 Other adverse effects	
Additional ecological inform	ation:
· General notes:	
Do not allow undiluted produ	at as large guantities of it to reach ground water, water equiped or

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

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.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· Uncleaned packaging:

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

SECTION 14: Transport informa	tion	
· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR/RID/ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR/RID/ADN, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	Void	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
 14.7 Maritime transport in bulk accordi IMO instruments 	ing to Not applicable.	
· UN "Model Regulation":	Void	

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.

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· 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. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008. No special training instructions to ensure protection of human health and environment are required. · purity requirement · Relevant phrases H361f Suspected of damaging fertility. • 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) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Repr. 2: Reproductive toxicity - Category 2 • * Data compared to the previous version altered.

Annex: Exposure scenario 1

- **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 Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- 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 No special measures required.
- · Personal protective measures No special measures required.
- · Measures for consumer protection No special measures required.
- · Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- · Disposal measures Ensure that waste is collected and contained.
- · **Disposal procedures** Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.

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· Guidance for downstream users No further relevant information available.

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Annex: Exposure scenario 2

• Short title of the exposure scenario Industrial use of lubricants and greater of lubricants	ases in open systems
· Sector of Use	duration latita
SU3 Industrial uses: Uses of substances as such or in preparations at in	dustriai sites
Product category PC24 Lubricants, greases, release products	
Process category	
PROC1 Chemical production or refinery in closed process without	likelihood of exposure or
processes with equivalent containment conditions.	
PROC2 Chemical production or refinery in closed continuous process	with occasional controlled
exposure or processes with equivalent containment conditions	
PROC7 Industrial spraying	
PROC8b Transfer of substance or mixture (charging and discharging) at	dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedic	cated filling line, including
weighing)	
PROC10 Roller application or brushing	
PROC13 Treatment of articles by dipping and pouring	
Environmental release category	
ERC4 Use of non-reactive processing aid at industrial site (no inclusion i	nto or onto article)
· Description of the activities / processes covered in the Exposure Sce	
See section 1 of the annex to the Safety Data Sheet.	
· Conditions of use	
• Duration and frequency 5 workdays/week.	
· Physical parameters	
· Physical state Fluid	
• Concentration of the substance in the mixture The substance is main	component
· Other operational conditions	componenti
• Other operational conditions affecting environmental exposure No s	pecial measures required
• Other operational conditions affecting consumer exposure Not requir	
• Other operational conditions affecting consumer exposure during th	
Not applicable.	e use of the product
· Risk management measures	
· Worker protection	
• Organisational protective measures No special measures required.	
• Technical protective measures No special measures required.	
• Personal protective measures No special measures required.	
• Measures for consumer protection No special measures required.	
 Environmental protection measures Air No special measures required. 	
• Water No special measures required.	
Disposal measures Disposal must be made according to official regulation	
Disposal procedures Dispose of product residues with household waster	
• Waste type Partially emptied and uncleaned packaging	
• Exposure estimation	
Consumer Not relevant for this Exposure Scenario.	
• Guidance for downstream users No further relevant information availab	1.
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Anney: Exposure scenario 3	le.
Annex: Exposure scenario 3	le.
Annex: Exposure scenario 3 • Short title of the exposure scenario Professional use of lubricants and g • Sector of Use	
 Short title of the exposure scenario Professional use of lubricants and Sector of Use 	greases in open systems
 Short title of the exposure scenario Professional use of lubricants and generative scenario Professional uses and generative scenario and scenario scenario and scenario scenario and scenario scenario and scenario	greases in open systems
 Short title of the exposure scenario Professional use of lubricants and generative of Use SU22 Professional uses: Public domain (administration, education, craftsmen) 	greases in open systems
 Short title of the exposure scenario Professional use of lubricants and generative scenario Professional uses and generative scenario and scenario scenario and scenario scenario and scenario scenario and scenario	greases in open systems

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- Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required. Other operational conditions affecting consumer exposure Not required.

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 Other operational conditions affecting consumer exposure during the us Not applicable. 	se of the product
Risk management measures	
Worker protection	
 Organisational protective measures No special measures required. 	
 Technical protective measures No special measures required. 	
• Personal protective measures No special measures required.	
Measures for consumer protection No special measures required.	
 Environmental protection measures 	
Air No special measures required.	
Water No special measures required.	
• Disposal measures Disposal must be made according to official regulations.	
 Disposal procedures Dispose of product residues with household waste. 	
 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.