

Safety Data Sheet

in accordance with HSNO

Printing date 23.11.2023

Version number 1.4


Revision: 23.11.2023

1 Identification of the substance or mixture and of the supplier

- **Product identifier**
- **Trade name:** **BOSCH CHAINSAW OIL**
- **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
- **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
- **Emergency telephone number:**
In case of a medical emergency following exposure to a chemical, call the National Poisons Information Centre New Zealand 0800 764 766

2 Hazards identification

- **Classification of the substance or mixture**
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
-
- **Label elements**
 - **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
 - **Hazard pictograms**
- 

GHS08
- **Signal word** Warning
 - **Hazard-determining components of labelling:**
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
 - **Hazard statements**
H361 Suspected of damaging fertility or the unborn child.
 - **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.	
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
 - **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.

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· **vPvB:** Not applicable.

3 Composition/Information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	0.1-0.25%
EINECS: 270-128-1	Repr. 2, H361	

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

4 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:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **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 section 13.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **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
Keep container tightly sealed.

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- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **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/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	0.14 mg/m ³ (consumer)

· PNECs

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

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(freshwater)	0.51 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment plant/STP	10 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Sediment (freshwater)	0.446 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marine water)	0.0446 mg/kg (aquatic organisms)
PNEC / Terrestrial organism / Soil	2.59 mg/kg (terrestrial organisms)

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
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.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **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.
- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

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9 Physical and chemical properties

- **General Information**
- **Appearance:**
- **Form:** Fluid
- **Colour:** Orange
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** Undetermined.
- **Flash point:** >200 °C
- **Flammability (solid, gas):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 0.921 g/cm³ (ASTM D 4052)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
- **water:** Not miscible or difficult to mix.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
- **Dynamic:** Not determined.
- **Kinematic:** 65 mm²/s @ 40 °C
- **Solvent separation test:**
- **VOC (EC)** 0.00 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **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

Oral	LD50	5,000 mg/kg (rat)
	NOEL	100 mg/kg/24h (rat)
	NOAEL	25 mg/kg/24h (rat)
	LOEL	125 mg/kg/24h (rat)

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Dermal	LD50	2,000 mg/kg (rat)
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- **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** Suspected of damaging fertility or the unborn child.
- **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.

12 Ecological information

· Toxicity

· Aquatic toxicity:

68411-46-1 Benzenamine, 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)
EC50	0.271-1 g/kg/28d (sediment)
EC50	100 mg/l/24h (aquatic invertebrates)
EC50	100 mg/l/72h (algae / cyanobacteria)
EC100	100 mg/l/48h (aquatic invertebrates)
EC50	51 mg/l/48h (aquatic invertebrates)
NOEC	0.03125-1 g/kg/28d (sediment)
	0.5-1 g/kg/28d (terrestr. macroorganisms (- arthropods))
NOEC	10-100 mg/l/72h (algae / cyanobacteria)
NOEC	10 mg/l/48h (aquatic invertebrates)
LOEC	0.0625-1 mg/l/21d (sediment)
	1 mg/l/21d (terrestr. macroorganisms (- arthropods))

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**

· Bioaccumulative potential

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

Partition coefficient	5.2-10.8 [---] (log Kow) (Bioaccumulation)
Bioconcentration factor (BCF)	1.73 BCF (Bioaccumulation)
Biodegradability	94.4 % (28d) (Biodegradability) (OECD 301 B)

- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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13 Disposal considerations

- **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.

14 Transport information

- | | |
|---|---|
| · UN-Number | |
| · NZS/RID/ADN, IMDG, IATA | Not classified as hazardous for transport |
| · UN proper shipping name | |
| · NZS/RID/ADN, IMDG, IATA | Not classified as hazardous for transport |
| · Transport hazard class(es) | |
| · NZS/RID/ADN, ADN, IMDG, IATA | |
| · Class | Not classified as hazardous for transport |
| · Packing group | |
| · NZS/RID/ADN, IMDG, IATA | Not classified as hazardous for transport |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Not classified as hazardous for transport |

15 Regulatory information

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

- **New Zealand Inventory of Chemicals**

67701-08-0	OLEIN 3146
8002-13-9	Rape oil
80939-62-4	Amine, C11-14-branched alkyl, Monoxyl and dibutyl phosphate
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic
80-62-6	methyl methacrylate
29190-28-1	2,4-bis(xylylazo)resorcinol
64742-94-5	Solvent naphtha (petroleum), heavy arom.
122-39-4	diphenylamine

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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· **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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**

H361 Suspected of damaging fertility or the unborn child.

· **Contact:**

· **Abbreviations and acronyms:**

Repr. 2: Reproductive toxicity – Category 2

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

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