

Voluntary Product Information	 BOSCH	Product name: BOSCH UniversalChainPole 18 & UniversalChain 18 CONCENTRATE 2019.02 Version: 2.0 Printing Date: 24/06/2021 Page 1 of 9
-------------------------------	--	--

VOLUNTARY PRODUCT INFORMATION

1. Identification of the product and of the company/undertaking

1.1. Product identifier

Product Name: SAE 10W-30

Product Description: Base Oil and Additives

Product Code: 201760102030, 452649 (BOSCH internal PN: 1 600 A02 90N)

Intended Use: Lube oil

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public

Use of the substance/mixture: lubricate saw chain

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the voluntary product information:

Robert Bosch Power Tools GmbH

70538 Stuttgart / GERMANY

www.bosch-pt.com

2. Hazard identification

2.1. Classification of the substance or mixture

NON-HAZARDOUS SUBSTANCE.

NON-DANGEROUS GOOD.

Classified in accordance with Approved Criteria for Classifying Hazardous Substances NOHSC:1008 & according to Australian Dangerous Goods Code. AS1940 COMBUSTIBLE CLASS: C2.

The oil SAE 10W-30 oil used for BOSCH 18V pole pruner is classified as "Non-Hazardous" by the REACH Regulation No. 1907 (2006) and CLP which is Regulation No 1272/2008 for the classification, labelling and packaging of substances and mixtures.

2.2. Label elements

No additional information available

2.3. Other hazards

Health hazards

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

Voluntary Product Information	 BOSCH	Product name: BOSCH UniversalChainPole 18 & UniversalChain 18 CONCENTRATE 2019.02 Version: 2.0 Printing Date: 24/06/2021 Page 2 of 9
-------------------------------	--	--

Note: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

3. Composition/information on ingredients

3.1. Substances

No Reportable Hazardous Substance(s) or Complex Substance(s). Other ingredients determined not to be hazardous up to 100%.

3.2. Mixtures

No Reportable Hazardous Substance(s) or Complex Substance(s). Other ingredients determined not to be hazardous up to 100%.

4. First aid measures

4.1. Description of first aid measures

Inhalation

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Skin contact

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Eye contact

Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion

First aid is normally not required. Seek medical attention if discomfort occurs.

5. Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight streams of water.

Voluntary Product Information	 BOSCH	Product name: BOSCH UniversalChainPole 18 & UniversalChain 18 CONCENTRATE 2019.02 Version: 2.0 Printing Date: 24/06/2021 Page 3 of 9
-------------------------------	--	--

5.2. Fire fighting

Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Smoke, Fume, Aldehydes, Sulphur oxides, Incomplete combustion products, Oxides of carbon

5.3. Flammability properties

Flash Point [Method]: >200°C (392°F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL:0.9 UEL: 7.0

5.4. Autoignition Temperature

N/D

6. Accidental release measures

6.1. Notification procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

6.2. Protective measures

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

6.3. Spill management

Land Spill: Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Voluntary Product Information	 BOSCH	Product name: BOSCH UniversalChainPole 18 & UniversalChain 18 CONCENTRATE 2019.02 Version: 2.0 Printing Date: 24/06/2021 Page 4 of 9
-------------------------------	--	--

6.4. Environmental precautions

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and storage

7.1. Precautions for safe handling

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance.

Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator: This material is a static accumulator.

7.2. Conditions for safe storage, including any incompatibilities

The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

Material is defined under the National Standard [NOHSC:1015] Storage and Handling of Workplace Dangerous Goods.

8. Exposure controls /personal protection

8.1. Exposure limits/standards for materials that can be formed when handling this product

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

8.2. Biological limits

No biological limits allocated.

8.3. Engineering controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

Control measures to consider: no special requirements under ordinary conditions of use and with adequate ventilation.

Voluntary Product Information	 BOSCH	Product name: BOSCH UniversalChainPole 18 & UniversalChain 18 CONCENTRATE 2019.02 Version: 2.0 Printing Date: 24/06/2021 Page 5 of 9
-------------------------------	--	--

8.4. Personal protection

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: if engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: particulate. No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: Nitrile, Viton. No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: no skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Practise good housekeeping.

8.5. Environmental controls

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

9. Physical and chemical properties

Note: physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

Voluntary Product Information	 BOSCH	Product name: BOSCH UniversalChainPole 18 & UniversalChain 18 CONCENTRATE 2019.02 Version: 2.0 Printing Date: 24/06/2021 Page 6 of 9
-------------------------------	--	--

9.1. General information

Physical State: Liquid
Colour: Amber
Odour: Characteristic
Odour Threshold: N/D

9.2. Important health, safety and environmental information

Relative Density (at 15 °C): 0.881
Flash Point [Method]: >235°C (392°F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D
Boiling Point / Range: > 316°C (600°F)
Vapour Density (Air = 1): > 2 at 101 kPa
Vapour Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C
Evaporation Rate (n-butyl acetate = 1): N/D
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): > 3.5
Solubility in Water: Negligible 10.98 cSt (30.6 mm²/sec) at 100°C
Oxidizing Properties: see Hazards Identification Section.

9.3. Other information

Freezing Point: N/D
Melting Point: N/A
Pour Point: -36°C
DMSO Extract
(mineral oil only),
IP346: < 3 %wt

10. Stability and reactivity

10.4. Stability and reactivity

Material is stable under normal conditions.

10.5. Conditions to avoid

Excessive heat. High energy sources of ignition.

10.6. Incompatible materials

Strong oxidisers.

10.7. Hazardous decomposition products

Material does not decompose at ambient temperatures.

Voluntary Product Information	 BOSCH	Product name: BOSCH UniversalChainPole 18 & UniversalChain 18 CONCENTRATE 2019.02 Version: 2.0 Printing Date: 24/06/2021 Page 7 of 9
-------------------------------	--	--

10.8. Hazardous reactions

Will not occur.

11. Toxicological information

11.1. Acute toxicity

<u>Route of Exposure</u>	<u>Conclusion / Remarks</u>
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m ³	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
Ingestion	
Toxicity (Rat): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

11.2. Chronic/other effects

For the product itself: repeated and/or prolonged exposure may cause irritation to the skin, eyes, or respiratory tract. Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components or similar formulations. Contains: base oil severely refined: not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitising in test animals. Additional information is available by request.

11.3. IARC Classification

The following ingredients are cited on the lists below: None.

Regulatory lists searched: 1= IARC 1, 2 = IARC 2A, 3= IARC 2B

12. Ecological information

The information given is based on data available for the material, the components of the material, and similar materials.

Voluntary Product Information	 BOSCH	Product name: BOSCH UniversalChainPole 18 & UniversalChain 18 CONCENTRATE 2019.02 Version: 2.0 Printing Date: 24/06/2021 Page 8 of 9
-------------------------------	--	--

12.1. Ecotoxicity

Material -- Not expected to be harmful to aquatic organisms.

12.3. Mobility

Base oil component -- Low solubility and floats and is expected to migrate from water to the land.

Expected to partition to sediment and wastewater solids.

12.4. Persistence and degradability

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

12.5. Bio accumulative potential

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

13. Disposal considerations

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

13.1. Disposal recommendations

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Empty Container Warning (where applicable): empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

14. Transport information

14.1. Land (ADG): Not Regulated for Land Transport

14.2. Sea (IMDG): Not Regulated for Sea Transport according to IMDG-Code

14.3. Air (IATA): Not Regulated for Air Transport

15. Regulatory information

Voluntary Product Information	 BOSCH	Product name: BOSCH UniversalChainPole 18 & UniversalChain 18 CONCENTRATE 2019.02 Version: 2.0 Printing Date: 24/06/2021 Page 9 of 9
-------------------------------	--	--

15.1. Safety, health and environmental regulations/legislation specific for substances or mixture

EU regulations

Contains no REACH substances with Annex XVII restrictions.
Contains no substance on the REACH candidate list.
Contains no REACH Annex XIV substances

National regulations

Material is not hazardous as defined by the Approved Criteria for Classifying Hazardous Substances NOHSC:1008.

Contains: LONG-CHAIN ALKYL AMINE May produce an allergic reaction.

This material contains one or more sensitizers <1.0% by weight which are not identified in the Composition Section. Product is not regulated according to Australian Dangerous Goods Code.

No Poison Schedule number allocated by the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act.

Complies with the following national/regional chemical inventory requirements: IECSC, PICCS, TSCA, EINECS, AICS, KECI

Special Cases:

Inventory	Status
ENCS	Restrictions Apply
NDSL	Restrictions Apply

16. Other information

Key to abbreviations and acronyms:

N/D = Not determined, N/A = Not applicable, STEL = Short-Term Exposure Limit, TWA = Time-Weighted Average