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

1.1. Product identifier

PRO UNIVERSAL CUTTING OIL 2607009020

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

Use of the substance/mixture

Cutting oil

1.3. Details of the supplier of the safety data sheet

Company name: Robert Bosch Power Tools GmbH
PT/EEI
Place: 70538 Stuttgart / GERMANY
Internet: www.bosch-pt.com

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number: INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
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 GB CLP regulation.

Hazard pictograms Void

Signal word Void

Hazard-determining components of labelling:

Distillates (petroleum), hydrotreated light paraffinic Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Hydrocarbons, C8-C9, isoalkanes

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

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.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains Alkyl Dithiophosphate. May produce an allergic reaction.

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

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components

**PRO UNIVERSAL CUTTING OIL 2607009020**

00635-0022

EC No	Chemical name	Quantity
CAS: 64742-55-8 EINECS: 265-158-7 Index number: 649-468-00-3 Reg.nr.: 01-2119487077-29	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1, H30	60-80%
EC Number: 927-241-2 Reg.nr.: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412	2.5-7.5%
EC number: 932-020-9 Reg.nr.: 01-2119548395-31	Hydrocarbons, C8-C9, isoalkanes Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	≥1-<2.5%
	Alkyl Dithiophosphate Skin Sens. 1B, H317; Aquatic Chronic 4, H413	≥0.25-<1%
Regulation (EC) No 648/2004 on detergents / Labelling for contents		
aliphatic hydrocarbons		≥5 - <15%
perfumes		<5%

Additional information:

Note L: The classification as carcinogen does not apply because the mixture (or substance) contains less than 3% dimethyl sulfoxide extract (DMSO), measured according to IP 346. For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Supply fresh air; consult doctor in case of complaints.

After contact with skin

Remove residues with soap and water.

After contact with eyes

Rinse opened eye for several minutes under running water.

After ingestion

Do not induce vomiting. Do not take in resorption stimulating agents.

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 media

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media

Do not use Water Jet.

5.2. Special hazards arising from the substance or mixture

In case of fire carbon, sulphur and nitrogen oxides can be formed.

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 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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

6.4. Reference to other sections

No dangerous substances are released.

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 precautions are necessary if used correctly.

Advice on protection against fire and explosion

Do not heat above flash point.

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: 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

Store containers closed and protected against rain, dust, heat and other atmospheric influences.

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		
64742-55-8 Distillates (petroleum), hydrotreated light paraffinic		
Dermal Inhalative	DNEL / Workers / Local Effects / Long-term DNEL DNEL	1 mg/kg/8h (worker) 2.7-5.4 mg/m3/8h (worker) 1.2 mg/m3/24h (consumer)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
Oral	DNEL/general population/Systemic effects/Long-term	125 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term DNEL/general population/Systemic effects/Long-term	208 mg/kg/24h (worker) 125 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term DNEL/general population/Systemic effects/Long-term	871 mg/m3 (worker) 185 mg/m3 (consumer)
PNECs		
64742-55-8 Distillates (petroleum), hydrotreated light paraffinic		
Oral	PNEC / Predators / Secondary poisoning	9.33 mg/kg food (secondary poisoning (predators))

Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

Appropriate engineering controls

No further data; see section 7.

Individual protection measures, such as 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.

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 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/face protection Goggles recommended during refilling

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General information

Physical State	Fluid
Colour:	Yellow - Brown
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	75 °C
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
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.
Vapour pressure:	
Density and/or relative density	
Density at 20 °C:	0.873 g/cm ³ (ASTM D 4052)
Relative density	Not determined.
Vapour density	Not determined

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not determined.

Information with regard to physical hazard 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
Desensitised explosives	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.

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

Acute toxicity Based on available data, the classification criteria are not met. LD50/oral/rat: > 2000 mg/kg

LD/LC50 values relevant for classification:		
64742-55-8 Distillates (petroleum), hydrotreated light paraffinic		
Oral	LD50	5,000 mg/kg (rat)
	LOAEL	125 mg/kg/24h (rat)
Dermal	LD50	2,000-5,000 mg/kg (rabbit)
	NOAEL	150 mg/kg/24h (mouse)
		30-2,000 mg/kg/24h (rat)
		1,000 mg/kg/24h (rabbit)
Inhalative	LOAEL	100 mg/kg/24h (mouse)
	LC50 / 4h	2.18-5.53 mg/l (rat)
	NOEL	220 mg/m3 (rat)
	NOAEL	980 mg/m3 (rat)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
Oral	LD50	5,000-15,000 mg/kg (rat)
	NOAEL	1,000-5,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)
		3,160-5,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	4.951-9.3 mg/l (rat)
	LC50 / 8h	41-4,467 ppm (rat)
	LC50 / 8h	5 mg/l (rat)
	NOAEL	200 ppm (rat)
	NOAEC	275-10,400 mg/m3 (rat)

Aspiration hazard May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic Toxicity:	
64742-55-8 Distillates (petroleum), hydrotreated light paraffinic	
LL50	10,000 mg/l/96h (aquatic invertebrates) 100 mg/l/96h (fish) >100 mg/l/96h (Pimephales promelas) (OECD 203)
LL50	10,000 mg/l/72h (aquatic invertebrates)
LL50	10,000 mg/l/48h (aquatic invertebrates)
EL50	10,000 mg/l/48h (aquatic invertebrates)
NOEL	>100 mg/l/72h (Pseudokirchnerella subcapitata) (OECD 201)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
LL50	10-30 mg/l/96h (fish)
LL50	10-30 mg/l/72h (fish)
LL50	100 mg/l/48h (fish)
LL50	100 mg/l/24h (fish)
LL0	10 mg/l/96h (aquatic invertebrates) 1 mg/l/96h (fish)
EL50	22-46 mg/l/48h (aquatic invertebrates) 1,000 mg/l/48h (algae / cyanobacteria)
EL50	100 mg/l/24h (aquatic invertebrates) 1,000 mg/l/24h (algae / cyanobacteria)
EL50	1,000 mg/l/72h (algae / cyanobacteria)
EL0	10 mg/l/48h (aquatic invertebrates)
NOELR	0.182 mg/l/28d (fish)
NOELR	0.317 mg/l/21d (aquatic invertebrates)
NOELR	1,000 mg/l/72h (algae / cyanobacteria)

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

64742-55-8 Distillates (petroleum), hydrotreated light paraffinic	
Partition coefficient	>3.5 [---] (log Kow) (Bioaccumulation)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
Biodegradability	>80 % (28d) (Biodegradability) (OECD 301 F)

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6. Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7. Other adverse effects

Remark: Harmful to fish

Additional ecological information:

General notes:

Water hazard class 2 (according to Appendix 1 AWSV): significantly hazardous to water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms



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 information

Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO-TI/IATA-DGR); Inland waterways t

14.1. UN number:

No hazardous material as defined by the transport regulations.

14.2. UN proper shipping name:

No hazardous material as defined by the transport regulations.

14.3. Transport hazard class(es):

No hazardous material as defined by the transport regulations.

14.4. Packing group:

No hazardous material as defined by the transport regulations.

14.5. Environmental hazards

No hazardous material as defined by the transport regulations.

14.6. Special precautions for user

No hazardous material as defined by the transport regulations.

14.7. Maritime transport in bulk according to IMO instruments

No hazardous material as defined by the transport regulations.

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

15.2 Chemical safety assessment:

A Chemical Safety Assessment has been carried out.



SECTION 16: Other information

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



ANNEX: Exposure scenario 1

Short title of the exposure scenario Industrial use of cutting fluids

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Product category

PC24 Lubricants, greases, release products

PC25 Metal working fluids

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

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC17 Lubrication at high energy conditions in metal working operations

PROC18 General greasing /lubrication at high kinetic energy conditions

Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

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.

Guidance for downstream users No further relevant information available.



ANNEX: Exposure scenario 2

Short title of the exposure scenario Professional use of cutting fluids

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category

PC24 Lubricants, greases, release products

PC25 Metal working fluids

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

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC17 Lubrication at high energy conditions in metal working operations

PROC18 General greasing /lubrication at high kinetic energy conditions

Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

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.

Guidance for downstream users No further relevant information available.