



SAFETY DATA SHEET

PROFI-CAR CHALLENGE

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

1.1 Product identifier

Product name: CHALLENGE SAE 5W-20

Productcode: 11800

Synonyme:

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

Use of substance / mixture: Engine Oil

1.3 Details of the supplier of the safety data sheet

Company name / contact: PROFI-TECH GmbH
Otto-Lilienthal-Straße 2
88046 Friedrichshafen
Tel. +49 7541/40 286-0
Fax +49 7541/40 286-99
info@profi-tech.com

1.4 Emergency telephone number

Emergency number: +49 7541/40 286-0

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification under CHIP: This mixture is not classified as hazardous according to Directive 1999/45/EC.

Classification under CLP: This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

Most important adverse effects

2.2 Label elements (DSD/DPD)

Label elements under CLP:

Hazard statements: Product can build up a film on the water surface which can inhibit the oxygen exchange. See also sections 11, 12 and 15.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Hazard pictograms:

Precautionary statements:



Risk phrases:
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R51 Toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.

Safety phrases:

Precautionary phrases:

2.3 Other hazards

PBT: Not applicable.

Section 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients:

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
265-157-1	Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic	45 - < 50 %
64742-54-7		
	Asp. Tox. 1; H304	
01-2119484627-25		
276-738-4	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	45 - < 50 %
72623-87-1		
	Asp. Tox. 1; H304	
01-2119474889-13		
272-028-3	Zinc dialkyl dithiophosphate	1 - < 2.5 %
68649-42-3	Xi - Irritant, N - Dangerous for the environment R38-41-51-53	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411	

Further Information: Test data has shown that the zinc dialkyl dithiophosphate contained does not lead to a classification of the product as "Eye Irrit. 2". The mixture contains either the substance with CAS 265-157-1 or the substance with the CAS 276-738-4. All concentrations are quoted as mass percentages for liquids and volume percentages for gases. Other substances which are not classified as dangerous are contained up to 100

Section 4: First aid measures

4.1. Description of first aid measures

Inhalation: Remove casualty to fresh air and keep warm and at rest. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Skin contact: After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately and dispose off safely. In case of skin irritation, seek medical treatment..

Eye contact: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

Swallowing: Do NOT induce vomiting. Call a physician immediately. Aspiration hazard



4.2. Most important symptoms and effects, both acute and delayed

Skin contact: No data available.

Eye contact: No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: No data available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide (CO₂). Foam. Dry extinguishing powder. Use water spray jet to protect personnel and to cool endangered containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: The formation of combustible vapours is possible at temperatures above: Flash point. Hot product may produce flammable vapours. Can be released in case of fire: Pyrolysis products, toxic. hydrocarbons. Carbon dioxide. Carbon monoxide. Hydrogen sulphide (H₂S). Nitrogen oxides (NO_x). Phosphorus oxides. Smoke.

5.3. Advice for fire-fighters

Advice for fire-fighters: In case of fire: Wear self-contained breathing apparatus. Full protective suit. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Provide adequate ventilation as well as local exhaust at critical locations. Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Conditions to avoid: Inhalation. Do not put any product-impregnated cleaning rags into your trouser pockets. High slip hazard because of leaking or spilled product.

6.2. Environmental precautions

Environmental precautions: Prevent spread over a wide area (e.g. by containment or oil barriers). Do not empty into drains. If product enters soil, it will be mobile and may contaminate groundwater.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal

6.4. Reference to other sections

Reference to other sections: See section 8 & 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: See section 6.1 Avoid contact with skin and eyes. Keep away from sources of ignition. - No smoking. Wash hands before breaks and after work. All work processes must always be designed so that the following is excluded: Generation/formation of mist



7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep/Store only in original container. Do not store together with: Spontaneous combustion. Keep only in the original container at temperature not exceeding 50 °C.

Suitable packaging:

7.3. Specific end use(s)

Observe technical data sheet.

Section 8: Exposure controls / personal protection

8.1. Control parameters

Hazardous ingredients:

8.2 DNEL/PNEC

DNEL/PNEC:.

8.3. Exposure controls

Engineering measures: Provide adequate ventilation as well as local exhaust at critical locations.

Respiratory protection: Take off immediately all contaminated clothing. Wash hands before breaks and after work. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

Hand protection: Examples of suitable protective gloves from the company KCL GmbH, D-36124 oak cellular, phone +49 (0) 6659 87300, E-mail are: Vertrieb@kcl.de with the following specification (test according to EN 374 In full contact / splash contact: Camatril (Item no.: 731; material: nitrile, Minimum coat thickness: 0.33 mm, Breakthrough time: 480 min) Dermatril (Item no.: 740; material: nitrile, Minimum coat thickness: 0.11 mm, Breakthrough time: 30 min) The selected protective gloves have to satisfy the specifications of EU Directive 89/686 / EEC and the resultant standard EN374. The breakthrough times stated above are based on laboratory measurements of KCL to EN374 and are only authoritative for the recommended glove types. Protect skin by using skin protective cream.

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Skin protection: The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Chemical resistant safety shoes. with lead protection cap. German Industry Norms (DIN) / European Norms (EN): DIN EN 344

Environmental: Technical measures to prevent exposure. Organisational measures to prevent exposure.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: liquid

Colour: yellow, brown

Odour: Characteristic

Evaporation

Solubility in water:

Also soluble in:.

Viscosity: 8,8 mm²/s DIN 51562

Kinematic viscosity:

Viscosity test method:



Boiling point / range°C: > 300 °C

Flammability limits %: <= -42 °C DIN ISO 3016

Lower explosion limits: 0,6 vol. %

Upper explosion limits: 6,5 vol. %

Flash point°C: > 200 °C DIN ISO 2592

Autoflammability°C:

Vapour pressure:

Relative density: 0,860 g/cm³ DIN 53217

VOC g/l:

9.2. Other information

Other information: No further relevant information available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: See section 9.

10.2. Chemical stability

Chemical stability: If product is stored and handled as prescribed it is stable.

10.3. Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point

10.4. Conditions to avoid

Conditions to avoid: Oxidizing agents, strong.

10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition products

Haz. decomp. products: See section 5.3.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution: There are no data available on the preparation/mixture itself.

Acute toxicity: Classification: none. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Irritation and corrosivity: Classification: none. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Sensitising effects: Classification: none. Frequently or prolonged contact with skin may cause dermal irritation.

Severe effects after repeated or prolonged exposure: Classification: none. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).



Carcinogenic/mutagenic/toxic effects for reproduction: This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Specific effects in experiment on an animal: There are no data available on the preparation/mixture itself.

Additional information on tests: Frequently or prolonged contact with skin may cause dermal irritation

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: There are no data available on the preparation/mixture itself. Classification: none. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

12.2. Persistence and degradability

Persistence and degradability: Not easily bio-degradable (according to OECD-criteria). Product is not easily biodegradable. (Data apply to the main component.)

12.3. Bioaccumulative potential

Bioaccumulative potential: There are no data available on the preparation/mixture itself.

12.4. Mobility in soil

Mobility: There are no data available on the preparation/mixture itself.

12.5. Results of PBT and vPvB assessment

PBT identification: Not applicable.

12.6. Other adverse effects

Other adverse effects: Effects in sewage plants: Mechanical separation in a suitable sewage plant is possible.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)". Observe mixture permissions according to "Altölverordnung (Waste oil directive)". Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Recovery operations:

Waste code number: 130205

Disposal of packaging:

NB: Non contaminated packagings may be recycled.

Section 14: Transport information

No dangerous good in sense of these transport regulations.



Section 15: Regulatory information

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

WGK: Water contaminating class (D): 2 - water contaminating

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Section 16: Other information

16.1 Other information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010 indicates text in the SDS which has changed since the last revision.