

# 5W-20

Is four season engine oil which has been formulated with synthetic oils and performance additives for superior protection and excellent fluidity. It has been developed to be used in diesel and gasoline engines passenger and commercial vehicles engines which work by internal-combustion engine. It can be safely used in cars, vans and small commercial vehicles engines.

## Properties

- *Provides fuel economy and long service life by excellent viscosity control property.*
- *It forms extra protection layer against to abrasion by bonding to surface of engines with smart molecules that contains.*
- *It makes easy to work at cold weather by its viscosity.*
- *Provides high resistance to tear due to high viscosity index.*

## Approvals and Specifications

**API: SN/CI-4** (API SN/SL/CI-4/CH-4/CF-4, ACEA A3/B3-08/B4-08, MB 229.3/229.5, BMW LL-01, VW 501.01/502.00/505.00, PORSCHE A40, Ford WSS-M2C913-C, Ford WSS-M2C913-D, Renault RN 0700, Opel GM-LL-B-025)

TEST	METHOD	TYPICAL PROPERTIES
Density, g/cm <sup>3</sup> , at 15°C	ASTM D4052	0,871
Kinematic Viscosity, at 40 °C	ASTM D 455	65,9
Kinematic Viscosity, cSt, at 100°C	ASTM D445	8,92
Viscosity Index	ASTM D2270	142
Flash Point, °C, min	ASTM D92	230
Pour Point, °C, max	ASTM D97	-38
Ash, Sulfated, mass%,	ASTM D874	0.8

# 5W20 SN/CF

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 21/07/2021

Revision date: 01/02/2024

Supersedes: 18/09/2026

Version: 5.1

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

#### 1.1. Product identifier

Product form : Mixture  
Product name. : 5W20 SN/CF  
Product code : 34280  
Product group : Blend

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use  
Industrial/Professional use spec. : Non-dispersive use  
Used in closed systems  
Function or use category : Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

### FACO PETROL KİMYA SANAYİ DİŞ TİCARET LTD. ŞTİ.

Center Office: Siteler Mh. 492 Sk. No: 1/A My Vista Smart Aliğa/İZMİR/TÜRKİYE

info@cosmomotoroil.com / www.cosmomotoroil.com

Phone: +90 552 222 6766

#### 1.4. Emergency telephone number

Emergency number : +90 552 222 6766

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

EUH phrases : EUH210 - Safety data sheet available on request

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Lubricating oils (petroleum), C20-100% 50, hydrotreated neutral oil-based; baseoil - unspecified	(CAS No) 72623-87-1 (EC no) 276-38-4	1 - 15	Not classified
Distillates (petroleum), solvent-dewaxed	(CAS No) 64742-65-0 (EC no) 265-169-7	1 - 2,5	Not classified
Baseoil - unspecified	(CAS No) 64742-55-8 (EC no) 265-158-7 (EC index no) 649-468-00-3	80 - 85	Not classified

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	(EC no) 270-608-0	0,1 - 1	Xi; R41 Xi; R38 N; R51/53
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)	(EC no) 298-577-9 (REACH-no) 01-2119543726-33	0,1 - 1	Xi; R41 Xi; R38 N; R51/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lubricating oils (petroleum), C20-100% 50, hydrotreated neutral oil-based; baseoil - unspecified	(CAS No) 72623-87-1 (EC no) 276-38-4	1 - 15	Asp. Tox. 1, H304
Distillates(petroleum), solvent-dewaxed	(CAS No) 64742-65-0 (EC no) 265-169-7	1 - 2,5	Asp. Tox. 1, H304
Baseoil - unspecified	(CAS No) 64742-55-8 (EC no) 265-158-7 (EC index no) 649-468-00-3	80 - 85	Asp. Tox. 1, H304
Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	(EC no) 270-608-0	0,1 - 1	Eye Dam. 1, H318 Skin Irrit. 2, H315 Aquatic Chronic 2, H411
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)	(EC no) 298-577-9 (REACH-no) 01-2119543726-33	0,1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411

Full text of R-, H- and EUH-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Not expected to require first aid measures.
- First-aid measures after skin contact : Wash skin with mild soap and water.
- First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.
- First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

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

- Symptoms/injuries after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- Symptoms/injuries after skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.
- Symptoms/injuries after eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
- Symptoms/injuries after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Water fog. Foam. Powder. Dry chemical product.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Precautionary measures fire : Exercise caution when fighting any chemical fire.
- Firefighting instructions : Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing and gloves.

##### 6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing and gloves.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- |                         |   |
|-------------------------|---|
| For containment         | : Impound and recover large spill by mixing it with inert granular solids.            |
| Methods for cleaning up | : Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr. |
| Other information       | : Spill area may be slippery. Use suitable disposal containers.                       |

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.         |
| Handling temperature          | : < 40 °C   |
| Hygiene measures              | : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. |

### 7.2. Conditions for safe storage, including any incompatibilities

- |                     |   |
|---------------------|---|
| Storage temperature | : < 40 °C                                   |
| Storage area        | : Store in dry, cool, well-ventilated area. |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

- : 5 mg/m<sup>3</sup> for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

### 8.2. Exposure controls

- |                               |                           |
|-------------------------------|---------------------------|
| Personal protective equipment | : Safety glasses. Gloves. |
|-------------------------------|---------------------------|



- |                          |  |
|--------------------------|--|
| Hand protection          | : Wear suitable gloves resistant to chemical penetration.  |
| Skin and body protection | : No special clothing/skin protection equipment is recommended under normal conditions of use.                         |
| Respiratory protection   | : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- |  |                                 |
|--|---------------------------------|
| Physical state                             | : Liquid                        |
| Appearance                                 | : Oily liquid.                  |
| Colour                                     | : Yellow                        |
| Odour                                      | : Characteristic.               |
| Odour threshold                            | : No data available             |
| pH   | : No data available             |
| Relative evaporation rate (butylacetate=1) | : No data available             |
| Melting point                              | : No data available             |
| Freezing point                             | : No data available             |
| Boiling point                              | : No data available             |
| Flash point                                | : > 225 °C @ ASTM D92           |
| Self ignition temperature                  | : No data available             |
| Decomposition temperature                  | : No data available             |
| Flammability (solid, gas)                  | : No data available             |
| Vapour pressure                            | : No data available             |
| Relative vapour density at 20 °C           | : No data available             |
| Relative density                           | : No data available             |
| Density                                    | : 0.865 kg/m <sup>3</sup> @15°C |



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Solubility	: Slightly soluble, the product remains on the water surface.
Log Pow	: No data available
Viscosity, kinematic	: 100 mm <sup>2</sup> /s @ 40°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Strong oxidizers. acids. Bases.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts

LD50 oral rat	3600 mg/kg
LD50 dermal rat	20000 mg/kg

#### Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)

LD50 oral rat	2600 mg/kg
LD50 dermal rat	> 3160 mg/kg OECD 402

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts

LC50 fishes 1	4,5 ml/l OECD 203, (Cyprinodon variegatus, 96h)
EC50 Daphnia 1	23 mg/l OECD 202, (Daphnia magna, 72h)
EC50 other aquatic organisms 1	21 ml/l

#### Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)

LC50 fishes 1	4,5 mg/l OECD 203 (Oncorhynchus mykiss) 96h
EC50 Daphnia 1	5,4 mg/l OECD 202 (Daphnia magna) 48h
EC50 other aquatic organisms 1	2,1 mg/l OECD 201 (Selenastrum capricornutum) 48h

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### 12.2. Persistence and degradability

#### 5W30 SN/CF

Persistence and degradability Not soluble in water, so only minimally biodegradable.

#### Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts

Biodegradation 1,5 % OECD 301B

#### Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)

Biodegradation 1,5 % OECD 301B 28d

### 12.3. Bioaccumulative potential

#### Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts

Log Pow 0,69

#### Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)

Log Pow 0,9 @23°C

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Additional information : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

In accordance with ADR / RID / ADN / IMDG / ICAO / IATA

### 14.1. UN number

No dangerous good in sense of transport regulations

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

No additional information available

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

#### 14.6.4. Inland waterway transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

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### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of R-, H- and EUH-phrases::

Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	skin corrosion/irritation Category 2
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
R38	Irritating to skin
R41	Risk of serious damage to eyes
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
Xi	Irritant

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*