

## PRODUCT DATA SHEET

# HD 50

High quality diesel and gasoline engine oil, formulated from high quality base oils and specially selected detergent and dispersant additives. Monograde motor oils recommended for diesel and gasoline engines working under normal service conditions.

### Properties

- Sludge formation, rust, corrosion and wear prevention
- Excellent engine protection
- High oxidation resistance
- Reduces maintenance costs and minimizes oil consumption in old type of motors.

### Approvals and Specifications

- API CF/SF
- Allison C3
- Caterpillar TO-2
- MIL-L-2104 D/E
- IQS 1197

| TEST                                 | METHOD      | TYPICAL PROPERTIES |
|--------------------------------------|-------------|--------------------|
| Density, g/cm <sup>3</sup> , at 15°C | ASTM D 4052 | 0,890              |
| Kinematic Viscosity, cSt, at 100°C   | ASTM D 445  | 19.2               |
| Kinematic Viscosity, cSt, at 40°C    | ASTM D 445  | 223                |
| Viscosity Index                      | ASTM D 2270 | 105                |
| Flash Point, °C, min                 | ASTM D 92   | 240                |
| Sulphated Ash, % mass                | ASTM D 0874 | 0.9                |
| Pour Point, °C, max                  | ASTM D 97   | -14                |

# HD 50

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010  
Date of issue:2/03/2022 Revision date:8/08/2023 Supersedes:4/03/2023 Version: 4.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : HD 50  
Product code : 185  
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 Aliağa/İZMİR/TÜRKİYE  
info@cosmomotoroil.com / www.cosmomotoroil.com  
Phone: +90 552 222 6766

#### 1.4. Emergency telephone number

Emergency number : +905522226766

### SECTION 2: Hazards identification

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

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

Not classified

#### 2.2. Label elements

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

EUH-statements : EUH208 - Contains Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction  
EUH210 - Safety data sheet available on request  
Child-resistant fastening : No  
Tactile warning : No

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name        | Product identifier | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------|--------------------|---------|---|
| Mineral oil |                    | 80 - 85 | Asp. Tox. 1, H304   |

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

|  |  |            |  |
|--|--|------------|--|
| Phenol, dodecyl-, branched   | (EC no) 310-154-3<br>(REACH-no) 01-2119513207-49 | 0,1 - 0,99 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 2, H361f<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 (M=10) |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts                         | (EC no) 274-263-7<br>(REACH-no) 01-2119492616-28 | 0,1 - 0,99 | Skin Sens. 1B, H317  |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts | (EC no) 283-392-8                                | 0,1 - 0,99 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411   |

Full text of H-statements: 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.

#### 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.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

- Handling temperature : < 40 °C
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking 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

| Mineral oil |                                       |                              |
|-------------|---------------------------------------|------------------------------|
| Turkey      | Limit value (mg/m <sup>3</sup> )      | 5 mg/m <sup>3</sup> 06/2011  |
| Turkey      | Short time value (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup> 06/2011 |

- Additional information : 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 : Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /
- 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-brown.
- 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 : > 220 °C @ ASTM D92
- Auto-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 : 896 kg/m<sup>3</sup> @ 15°C
- Solubility : Slightly soluble, the product remains on the water surface.
- Log Pow : No data available
- Viscosity, kinematic : 203 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



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### 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

| Mineral oil  |                                      |
|--|--------------------------------------|
| LD50 oral  | > 5000 mg/kg                         |
| LD50 dermal rabbit   | > 5000 mg/kg                         |
| LC50 inhalation rat (mg/l)                                     | > 5000 mg/l/4h mg/m <sup>3</sup> @4h |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts |                                      |
| LD50 oral rat  | > 5000 mg/kg OECD 401                |
| LD50 dermal rabbit   | > 5000 mg/kg OECD 402                |
| LC50 inhalation rat (Vapours - mg/l/4h)                        | > 1,7 mg/l/4h EPA OPP 81-3           |

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

| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts |                                 |
|--|---------------------------------|
| NOAEL (acute, oral, animal/male)                               | > 500 mg/kg bodyweight OECD 407 |
| Specific target organ toxicity (repeated exposure)             | : Not classified                |

Aspiration hazard : Not classified

| COSMO MOTOR OIL HD 50 CC/SC |                               |
|-----------------------------|-------------------------------|
| Viscosity, kinematic        | 203 mm <sup>2</sup> /s @ 40°C |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Based on available data, the classification criteria are not met.

| Phenol, dodecyl-, branched     |                              |
|--------------------------------|------------------------------|
| LC50 fish 1                    | 40 mg/l Pimephales promelas  |
| EC50 Daphnia 1                 | 0,037 mg/l                   |
| EC50 Daphnia 2                 | 0,0079 mg/l @21d             |
| EC50 other aquatic organisms 1 | 0,36 mg/l Chlorophyta        |
| EC50 other aquatic organisms 2 | > 1000 mg/l @0,1d - Slib     |
| EC50 96h algae (2)             | > 0,58 mg/l Mysidopsis Bahia |
| NOEC (chronic)                 | 0,0037 mg/l @21d - Daphnia   |

## Safety Data Sheet

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|   |                                    |
|---|------------------------------------|
| <b>Mineral oil</b>  |                                    |
| LC50 fish 1   | > 100 mg/l Pimephales promelas @4d |
| EC50 Daphnia 1  | > 10000 mg/l                       |
| EC50 Daphnia 2  | > 10 mg/l 21d                      |
| EC50 96h algae (1)  | > 100 mg/l 3d - Chlorophyta        |
| NOEC (chronic)  | > 10 mg/l 21d                      |
| <b>Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts</b>                         |                                    |
| LC50 fish 1   | > 1000 mg/l pimephales promelas    |
| LC50 fish 2   | > 10000 mg/l cyprinodon variegatus |
| EC50 Daphnia 1  | > 1000 mg/l                        |
| EC50 other aquatic organisms 2  | > 10000 mg/l 0,1d - slib           |
| EC50 96h algae (1)  | > 1000 mg/l Chlorophyta            |
| <b>Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts</b> |                                    |
| LC50 fish 1   | 4,5 mg/l Oncorhynchus mykiss       |
| LC50 fish 2   | 46 mg/l Cyprinodon varietagus      |
| EC50 Daphnia 1  | 23 mg/l                            |
| EC50 Daphnia 2  | 0,8 mg/l @21d                      |
| EC50 other aquatic organisms 2  | 10000 mg/l @0,1d - Chlorophyta     |
| EC50 72h algae (1)  | 21 mg/l @3d - Chlorophyta          |
| NOEC (acute)  | 1,8 mg/l @4d - Oncorhynchus mykiss |
| NOEC (chronic)  | 10 mg/l @2d - Daphnia              |
| NOEC chronic fish   | 0,4 mg/l @21d - Daphnia            |
| NOEC chronic algae  | 10 mg/l @3d - Chlorophyta          |

### 12.2. Persistence and degradability

|   |  |
|---|--|
| <b>COSMO MOTOR OIL HD 50 CC/SC</b>  |  |
| Persistence and degradability   | Not soluble in water, so only minimally biodegradable. |
| <b>Phenol, dodecyl-, branched</b>   |  |
| Biodegradation  | 25 % @28d - strum - OECD TG 301 B                      |
| <b>Mineral oil</b>  |  |
| Biodegradation  | 31 % 28d - OECD TG 301 B                               |
| <b>Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts</b>                         |  |
| BOD (% of ThOD)   | 8 % ThOD 28d - OECD TG 301 D                           |
| <b>Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts</b> |  |
| Biodegradation  | 1,5 % @28d - OECD TG 301 B                             |

### 12.3. Bioaccumulative potential

|   |                           |
|---|---------------------------|
| <b>Phenol, dodecyl-, branched</b>   |                           |
| Bioconcentration factor (BCF REACH)   | 794,33                    |
| Log Kow   | 7,14 Measurements         |
| <b>Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts</b>                         |                           |
| Log Kow   | 4,46 - 10,88 OECD 107/117 |
| <b>Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts</b> |                           |
| Log Kow   | 0,56 Measurements         |

### 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 / IMDG / IATA / ADN

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

#### ADN

Transport hazard class(es) (ADN) : Not applicable

#### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

No data available

#### - Rail transport

No data 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

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: Other information

Indication of changes:

|     |  |          |  |
|-----|--|----------|--|
| 2.2 | Label elements                         | Modified |  |
| 3.2 | Composition/information on ingredients | Modified |  |

Abbreviations and acronyms:

|  |  |
|--|--|
|  | ACGIH: American Conference of Governmental Industrial Hygienists   |
|  | TWA: Time Weighted Average   |
|  | TLV: Threshold Limit Value   |
|  | ASTM: American Society for Testing and Materials   |
|  | ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route                       |
|  | RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail                                    |
|  | ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin |
|  | IMDG: International Maritime Dangerous Goods   |
|  | ICAO: International Civil Aviation Organization  |
|  | IATA: International Air Transport Association  |
|  | STEL: Short Term Exposure Limit  |
|  | LD50: median Lethal Dose for 50% of subjects   |
|  | ATE: acute toxicity estimate   |
|  | LC50: median Lethal Concentration for 50% of subjects  |
|  | EC50: concentration producing 50% effect   |

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 H- and EUH-statements:

## Safety Data Sheet

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### 15.1.2. National regulations

No additional information available

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|  | TWA: Time Weighted Average   |
|  | TLV: Threshold Limit Value   |
|  | ASTM: American Society for Testing and Materials   |
|  | ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route                       |
|  | RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail                                    |
|  | ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin |
|  | IMDG: International Maritime Dangerous Goods   |
|  | ICAO: International Civil Aviation Organization  |
|  | IATA: International Air Transport Association  |
|  | STEL: Short Term Exposure Limit  |
|  | LD50: median Lethal Dose for 50% of subjects   |
|  | ATE: acute toxicity estimate   |
|  | LC50: median Lethal Concentration for 50% of subjects  |
|  | EC50: concentration producing 50% effect   |

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