

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

#### 1.1. Product identifier

Product form : Mixture  
 Product name : ENOC PROTEC FLEX ENERGY SAE 5W-20  
 Product code : 210045

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Petrol Engine Oil

##### 1.2.2. Uses advised against

No additional information available

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

ENOC Marketing L.L.C  
 ENOC House I  
 Dubai - United Arab Emirates  
 T +971 4 313 4613 - F +971 4 313 4616

#### 1.4. Emergency telephone number

Emergency number : +97143374400  
 (business hours)

### SECTION 2: Hazards identification

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

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

Serious eye damage/eye irritation, Category 2 H319 Calculation method

Full text of H statements : see section 16

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

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning  
 Hazard statements (CLP) : H319 - Causes serious eye irritation  
 Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337+P313 - If eye irritation persists: get medical advice/attention

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

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according to Regulation (EU) 2015/830

### 3.2. Mixture

| Name                         | Product identifier   | %          | Classification according to Regulation (EC) No. 1272/2008 [CLP]    |
|------------------------------|--|------------|--|
| White mineral oil, petroleum | (CAS No) 8042-47-5<br>(EC no) 232-455-8<br>(REACH-no) not available  | 82.6       | Not classified   |
| Zinc alkyl dithiophosphate   | (CAS No) 68649-42-3<br>(EC no) 272-028-3<br>(REACH-no) Not available | 0,78 - 1,6 | 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   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing.   |
| First-aid measures after skin contact | : Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.       |
| First-aid measures after eye contact  | : Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| First-aid measures after ingestion    | : Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately get medical attention.  |

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

|                                      |   |
|--------------------------------------|---|
| Symptoms/injuries after inhalation   | : May cause irritation to the respiratory tract. May cause drowsiness or dizziness.   |
| Symptoms/injuries after skin contact | : Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue damage. May cause skin irritation / dermatitis. |
| Symptoms/injuries after eye contact  | : May cause eye irritation.   |
| Symptoms/injuries after ingestion    | : May result in aspiration into the lungs, causing chemical pneumonia.  |

### 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   | : carbon dioxide (CO2), water, dry chemical powder. |
| Unsuitable extinguishing media | : None known.                                       |

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

|  |   |
|--|---|
| Fire hazard                                      | : None known.   |
| Explosion hazard                                 | : None known.   |
| Hazardous decomposition products in case of fire | : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Aldehydes. Sulfur oxides. |

### 5.3. Advice for firefighters

|                                       |   |
|---------------------------------------|---|
| Firefighting instructions             | : Cool down the containers exposed to heat with a water spray.                                |
| Protective equipment for firefighters | : Wear proper protective equipment. In case of fire: Wear self-contained breathing apparatus. |

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Wear personal protection equipment.                       |
| Emergency procedures | : Evacuate area. Avoid contact with skin, eyes and clothes. |

#### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Wear suitable protective clothing. In case of fire: Wear self-contained breathing apparatus.   |
| Emergency procedures | : Evacuate and limit access. Stop leak if safe to do so. Use ventilation/water spray/fog to disperse vapours. Do not touch spilled material. |

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

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

|                         |  |
|-------------------------|--|
| For containment         | : Clean up any spills as soon as possible, using an absorbent material to collect it. For larger spills, dike area and pump into waste containers. |
| Methods for cleaning up | : Collect all waste in suitable and labelled containers and dispose according to local legislation.  |

### 6.4. Reference to other sections

No additional information available

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                                   |  |
|-----------------------------------|--|
| Additional hazards when processed | : Handling this product may result in electrostatic accumulation. Use proper grounding procedures.   |
| Precautions for safe handling     | : Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Avoid static electricity discharges. Provide earthing of containers, equipment, pumps and ventilation facilities.   |
| Hygiene measures                  | : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practices. Take off contaminated clothes. Wash contaminated clothing prior to re-use. |

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

|                            |   |
|----------------------------|---|
| Storage conditions         | : Store in a dry, cool and well-ventilated place. |
| Special rules on packaging | : Keep only in original container.                |

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

|                                   |  |
|-----------------------------------|--|
| Appropriate engineering controls  | : Either local exhaust or general room ventilation is usually required.  |
| Personal protective equipment     | : Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.  |
| Materials for protective clothing | : Wear suitable protective clothing. Natural fibres (e.g. cotton)  |
| Hand protection                   | : Wear suitable gloves tested to EN374. Thickness of glove material: > 0.13 mm. Break through time: ≥ 480 min                          |
| Eye protection                    | : Use splash goggles when eye contact due to splashing is possible. DIN EN 166   |
| Respiratory protection            | : In case of inadequate ventilation wear respiratory protection. Wear a respirator conforming to EN140 with Type A/P2 filter or better |



### SECTION 9: Physical and chemical properties

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

|   |                     |
|---|---------------------|
| Physical state                              | : Liquid            |
| Colour                                      | : brown.            |
| Odour                                       | : Characteristics.  |
| Odour threshold                             | : No data available |
| pH  | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point                               | : No data available |
| Freezing point                              | : No data available |
| Boiling point                               | : No data available |
| Flash point                                 | : 230 °C            |
| 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                                     | : 0.835 g/mL @ 15°C |
| Solubility                                  | : No data available |
| Log Pow                                     | : No data available |
| Viscosity, kinematic                        | : 8.4 mm²/s @ 100°C |
| Viscosity, dynamic                          | : No data available |

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|                      |  |
|----------------------|--|
| Explosive properties | : Not explosive. However, formation of explosive air/vapour mixtures are possible. |
| Oxidising properties | : not oxidizing.   |
| Explosive limits     | : No data available  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None known under normal conditions of use. No polymerization.

### 10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|  |                                  |
|--|----------------------------------|
| Acute toxicity                                     | : Not classified                 |
| Skin corrosion/irritation                          | : Not classified                 |
| Serious eye damage/irritation                      | : Causes serious eye irritation. |
| 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                 |

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|                      |                                |
|----------------------|--------------------------------|
| Viscosity, kinematic | 8.4 mm <sup>2</sup> /s @ 100°C |
|----------------------|--------------------------------|

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 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

|                              |  |
|------------------------------|--|
| Regional legislation (waste) | : Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste. |
| Waste treatment methods      | : Can be incinerated according to local regulations.   |

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|                                   |  |
|-----------------------------------|--|
| Waste disposal recommendations    | : Dispose of this material and its container to hazardous or special waste collection point. |
| European List of Waste (LoW) code | : 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils                |

### SECTION 14: Transport information

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

#### 14.1. UN number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

#### 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

Not applicable

##### - Transport by sea

Not applicable

##### - Air transport

Not applicable

##### - Inland waterway transport

Not applicable

##### - Rail transport

Not applicable

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

Not applicable

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### 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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations

: International regulatory information:

AICS: Australia. Inventory of Chemical Substances (AICS) (as amended through 2 February 2016)

CAS RN: 68649-42-3, Name: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts  
Notes aU This entry is a chemical of unknown or variable composition, a complex product of a chemical reaction, or a biological material (UVCB); the Australian inventory denotes this by putting an asterisk (\*) after the CAS number.

DSL: Canada. Domestic Substances List (DSL), as amended through February 10, 2016

CAS RN: 68649-42-3

Name: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Canada. Ontario Inventory (incomplete), based on TSCA Initial Inventory (1979), Appendix A, Chemical Substance Identities, and TSCA Inventory Supplement 1 (1980)

CAS RN: 68649-42-3, Name: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Molecular formula: Unspecified

ENCS: Not listed

KECI: Korea. Existing Chemicals Inventory (KECI, January 27, 2015, amended through MoE 2016-15, January 19, 2016)

CAS RN: 68649-42-3, Name: Phosphorodithioic acid O,O-dialkyl(C=1-14) esters zinc salts

Korean ID Number: KE-28667

TSCA: U.S. Federal, TSCA

TSCA Section 4(e) Interagency Testing Committee (ITC) Priority List (through 73rd Report)

CAS RN: 68649-42-3, Name: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS

Notes ti78: The Fifty-Fifth ITC Report (November 2004) added 276 HPV orphan chemicals and removed 6 chemicals.

TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR) (40 CFR 712, Subpt. B)

CAS RN: 68649-42-3, Name: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

Note(s): p50 40 CFR 712.30. Final rule at 71 Fed. Reg. 47126 (8/16/2006). Effective date: September 15, 2006; reporting date: November 14, 2006.

TSCA Section 8(d) Health & Safety Data Reporting (40 CFR 716, Subpt. B)

CAS RN: 68649-42-3, Name: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS.

Listed in 40 CFR 716.120: (d), Special exemption(s): 716.21(a)(7)

Effective date: 9/29/06, Sunset date: 11/28/06

TSCA High Production Volume (HPV) Chemicals: 1990, 1994 & Post-1994 Additions (01/20/06)

CAS RN: 68649-42-3

Name: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS, 1990

HPV Challenge Program Chemical

HPV Indicator Value (see notes): 0 HPV Sponsorship Value (see notes): N

Notes

0 Chemical is a candidate for sponsorship under the HPV Challenge Program.

N Not Sponsored

PICCS: Philippines. Inventory of Chemicals and Chemical Substances (PICCS) 2012

CAS RN: 68649-42-3, Name: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts.

##### 15.1.2. National regulations

###### Germany

VwVwS Annex reference

: Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

###### Netherlands

SZW-lijst van kankerverwekkende stoffen

: Zinc alkyl dithiophosphate is listed

SZW-lijst van mutagene stoffen

: Zinc alkyl dithiophosphate is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

###### Denmark

Classification remarks

: Emergency management guidelines for the storage of flammable liquids must be followed

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15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Other information

: It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product. Such information is actually to be best of our knowledge and believes accurate as reliable.

Full text of H- and EUH-statements:

|                   |   |
|-------------------|---|
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Eye Dam. 1        | Serious eye damage/eye irritation, Category 1                     |
| Skin Irrit. 2     | Skin corrosion/irritation Category 2                              |
| H315              | Causes skin irritation  |
| H318              | Causes serious eye damage   |
| H319              | Causes serious eye irritation                                     |
| H411              | Toxic to aquatic life with long lasting effects                   |

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*