

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

1.1. Product identifier

Product form : Mixture
Product name : ENOC Vulcan 700X Ultra 20W-50
Product code : 200072

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 : Diesel 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]

Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS09

Signal word (CLP) : -
Hazard statements (CLP) : H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (CLP) : P273 - Avoid release to the environment
P391 - Collect spillage
P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|------|--|
| -Distillates (petroleum), hydrotreated heavy paraffinic | (CAS No) 64742-54-7 (EC no) 265-157-1 (EC index no) 649-467-00-8 (REACH-no) 01-2119484627-25-0025; 01-2119484627-25 01-2119471299-27-0019; 01-2119471299-27 | 33.6 | Carc. not classified according to note L of CLP (contains less than 3 % DMSO extract) |
| Paraffin oils (petroleum), catalytic dewaxed heavy, Baseoil - unspecified, [A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C).] | (CAS No) 64742-70-7 (EC no) 265-174-4 (EC index no) 649-477-00-2 (REACH-no) 01-2119487080-42-0003; 01-2119487080-42 01-2119484627-25-0025; 01-2119484627-25 01-2119471299-27-0019; 01-2119471299-27 | 54.7 | Carc. not classified according to note L of CLP (contains less than 3 % DMSO extract) |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and isopropyl) esters, zinc salts | (CAS No) 84605-29-8 (EC no) 283-392-8 (REACH-no) Not available | 1.1 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Phenol, dodecyl-, branched | (CAS No) 121158-58-5 (EC no) 310-154-3 (REACH-no) Not available | 0.5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 Aquatic Chronic 1, H410 (M=10) |

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 | : Aspiration of this material may cause chemical pneumonia. |
| Symptoms/injuries after inhalation | : May cause irritation to the respiratory tract. |
| 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 | : Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Caution if victim vomits: Risk of aspiration!. |

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. Sulphur 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. |
|----------------------|---------------------------------------|

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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

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. May result in aspiration into the lungs.
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 : amber.
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

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| | |
|----------------------------------|--|
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 244 °C (Open Cup) |
| 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 | : 0.889 g/cm ³ @ 15.5°C |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : 18.5 mm ² /s @ 100°C |
| Viscosity, dynamic | : No data available |
| 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

| -Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|--|--------------------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 5000 mg/kg |
| LC50 inhalation rat (mg/l) | > 5000 mg/m ³ |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and isopropyl) esters, zinc salts (84605-29-8) | |
| LD50 oral rat | 2000 mg/kg |
| LD50 dermal rabbit | > 3200 mg/kg |

| | |
|--|------------------|
| 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 |

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| ENOC Vulcan 700X Ultra 20W-50 | |
|-------------------------------|---------------------------------|
| Viscosity, kinematic | 18.5 mm ² /s @ 100°C |

SECTION 12: Ecological information

12.1. Toxicity

| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and isopropyl) esters, zinc salts (84605-29-8) | |
|--|---|
| LC50 fish 1 | 10 - 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| LC50 fish 2 | 38 mg/l (Exposure time: 96 h - Species: Pimephales promelas) |
| EC50 Daphnia 1 | 0.1 - 1 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

12.2. Persistence and degradability

| -Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|--|---------------------------|
| Persistence and degradability | Inherently biodegradable. |

12.3. Bioaccumulative potential

| -Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|--|----------------------------|
| Bioaccumulative potential | Bioaccumulative potential. |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

| Component | |
|--|---|
| -Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

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. |
| 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

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 |
|----------------------------------|------------------|

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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 : Yes
Marine pollutant : Yes
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 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 1 September 2015)
CAS RN: 64742-54-7
Name: Distillates, petroleum, hydrotreated heavy paraffinic
Note(s): 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 September 23, 2015
CAS RN: 64742-54-7
Name: Distillates, petroleum, hydrotreated heavy paraffinic
Canada. Categorization of Existing Substances on DSL (September 2006)
CAS RN: 64742-54-7
Name: DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC
Substance category: UORG
Meets CEPA criteria: Yes
Meets human health criteria: Yes
Human health priority: High
Meets environmental criteria: No
Persistent: Yes
Bioaccumulative: No
Inherently toxic to aquatic organisms: No
Notes: UVCBs-organic
ENCS: not listed
KECI: Korea. Existing Chemicals Inventory (KECI, January 27, 2015, amended through MoE 2015-95, July 1, 2015)

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CAS RN: 64742-54-7
Name: Distillates (petroleum), hydrotreated heavy paraffinic
Korean ID Number: KE-12546
PICCS: Philippines. Inventory of Chemicals and Chemical Substances (PICCS) 2012
CAS RN: 64742-54-7
Name: Distillates (petroleum), hydrotreated heavy paraffinic
TSCA: U.S. Federal, TSCA
TSCA IUR 2006, Partially Exempt Petroleum Process Streams (40 CFR 710.46(b)(1))
CAS RN: 64742-54-7
Name: DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC
TSCA CDR, Partially Exempt Petroleum Process Streams (40 CFR 711.6(b)(1)) (September 6, 2011)
CAS RN: 64742-54-7
Name: Distillates (petroleum), hydrotreated heavy paraffinic
TSCA High Production Volume (HPV) Chemicals: 1990, 1994 & Post-1994 Additions (01/20/06)
CAS RN: 64742-54-7
Name: DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC
1990 HPV Challenge Program Chemical
HPV Indicator Value (see notes): 0 Chemical is a candidate for sponsorship under the HPV Challenge Program
HPV Sponsorship Value (see notes): F Fully Sponsored Chemical
. International regulatory information:
AICS: Australia. Inventory of Chemical Substances (AICS) (as amended through 1 September 2015)
CAS RN: 64742-70-7
Name: Paraffin oils, petroleum, catalytic dewaxed heavy
Note(s): 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 September 23, 2015
CAS RN: 64742-70-7 may be regulated as a member of the Generics group for CAS RN: 8012-95-1
Generics group name: PARAFFIN OILS
Substance category: UORG
Meets CEPA criteria: Yes
Meets human health criteria: Yes
Human health priority: Moderate
Meets environmental criteria: No
Persistent: No
Bioaccumulative: No
Inherently toxic to aquatic organisms: No
ENCS: not listed
KECI: Korea. Existing Chemicals Inventory (KECI, January 27, 2015, amended through MoE 2015-95, July 1, 2015)
Name: Paraffin oils (petroleum), catalytic dewaxed heavy
Korean ID Number: KE-27774

PICCS: Philippines. Inventory of Chemicals and Chemical Substances (PICCS) 2012
CAS RN: 64742-70-7
Name: Paraffin oils (petroleum), catalytic dewaxed heavy

TSCA: U.S. Federal, TSCA
TSCA IUR 2006, Partially Exempt Petroleum Process Streams (40 CFR 710.46(b)(1))
TSCA CDR, Partially Exempt Petroleum Process Streams (40 CFR 711.6(b)(1)) (September 6, 2011)
CAS RN: 64742-70-7
Name: PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY
CAS RN: 64742-70-7 may be regulated as a member of the Generics group for CAS RN: 8012-95-1
Generics group name: PARAFFIN OILS
TSCA High Production Volume (HPV) Chemicals: 1990, 1994 & Post-1994 Additions (01/20/06)
CAS RN: 64742-70-7 may be regulated as a member of the Generics group for CAS RN: 8012-95-1
Generics group name: Paraffin oils
CAS RN: 64742-70-7
Name: Paraffin oils (petroleum), catalytic dewaxed heavy
CAS RN: 64742-70-7
Name: PARAFFIN OILS, PETROLEUM, CATALYTIC DEWAXED HEAVY
1990 HPV Challenge Program Chemical
HPV Indicator Value (see notes): 0
HPV Sponsorship Value (see notes): F
Notes: 0 Chemical is a candidate for sponsorship under the HPV Challenge Program; F Fully Sponsored Chemical.

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15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe 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 : -Distillates (petroleum), hydrotreated heavy paraffinic, Phenol, dodecyl-, branched, Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and isopropyl) esters, zinc salts are listed

SZW-lijst van mutagene stoffen : -Distillates (petroleum), hydrotreated heavy paraffinic, Phenol, dodecyl-, branched, Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and isopropyl) esters, zinc salts are 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

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 the mentioned precautionary measures and to 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:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H361 | Suspected of damaging fertility or the unborn child |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| 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