

Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 21/12/2015 Revision date: 21/12/2015

Supersedes:

Version: 1.0

	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: ENOC Strata LSF 415
Product code	: 252004
1.2. Relevant identified uses of the second	ubstance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Marine Diesel Engine Oil
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safe	ety 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	n
2.1. Classification of the substance of	r mixture
Classification according to Regulation (EC	C) No. 1272/2008 [CLP]
Sensitisation — Skin, Category 1 H317	
Full text of H statements : see section 16	
Adverse physicochemical, human health a	and environmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) No	1272/2008 [CL P]
Hazard pictograms (CLP)	
Signal word (CLP)	GHS07 : Warning
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
	P272 - Contaminated work clothing should not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - IF ON SKIN: Wash with plenty of water P321 - Specific treatment (see supplemental first aid instruction on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
2.3. Other hazards	
2.3. Other hazards No additional information available	
SECTION 3: Composition/informa	tion on ingredients
3.1. Substance	

3.1.

Not applicable

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3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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).] (Note L)	(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	80.5	Carc. not classified according to note L of CLP (contains less than 3 % DMSO extract)
Residual oils (petroleum), hydrotreated, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly greater than C25 and boiling above approximately 400 °C (752 °F).] (Note L)	(CAS No) 64742-57-0 (EC no) 265-160-8 (EC index no) 649-470-00-4 (REACH-no) 01-2119489287-22 01- 2119480472-38-0013; 01-2119480472-38	13.5	Carc. not classified according to note L of CLP (contains less than 3 % DMSO extract)
Calcium petroleum sulfonate	(CAS No) 61789-86-4 (EC no) 263-093-9 (REACH-no) Not available	1.32	Skin Sens. 1, H317
Zinc alkyl dithiophosphate	(CAS No) 68649-42-3 (EC no) 272-028-3 (REACH-no) Not available	0.5	Eye Dam. 1, H318 Aquatic Chronic 2, H411

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3. 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 effec	ts, 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	: 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 s	ubstance 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.

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SECTION 6: Accidental release me	easures
	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 omorgonou responders	
6.1.2. For emergency responders	· Wear auitable protective elething. In each of fire: Wear calf contained breathing apparetue
Protective equipment Emergency procedures	: Wear suitable protective clothing. In case of fire: Wear self-contained breathing apparatus. : 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 author	prities if liquid enters sewers or public waters.
6.3. Methods and material for contain	ment 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.
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, inclu	ding 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/pe	rsonal 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 p	properties	
9.1. Information on basic physical and c	hemical properties	
Physical state	: Liquid	
Colour	: brown.	
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Odour	: Characteristics.
Odour threshold	: No data available
рН	: 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	: 250 °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	: 0.8948 g/cm ³ @ 15°C
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: 14.5 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	o polymerization.
10.4. Conditions to avoid	
Keep away from heat/sparks/open flames/hot s	urfaces No smoking.
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition product	e
No hazardous decomposition products known a	
SECTION 11: Toxicological informa	tion
11.1. Information on toxicological effects	5
Acute toxicity	: Not classified
Calcium petroleum sulfonate (61789-86-4)	
LD50 oral rat	> 20 g/kg
LD50 dermal rabbit	> 4000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified

Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : May cause an allergic skin reaction. : Not classified Germ cell mutagenicity : Not classified Carcinogenicity Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard : Not classified 21/12/2015 EN (English)

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ENOC Strata LSF 415	
Viscosity, kinematic	14.5 mm²/s @ 100°C
<u>-</u>	
SECTION 12: Ecological information	
12.1. Toxicity	
Calcium petroleum sulfonate (61789-86-4)	
LC50 fish 1	5.7 - 9.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 fish 2	1.0 - 10.0 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])
EC50 Daphnia 1	6.2 - 12 mg/l (Exposure time: 48 h - Species: Daphnia magna)
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 assessme	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	IS
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	
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SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A	
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number	DN
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No. (ADR)	DN : Not applicable
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No. (ADR) UN-No. (IMDG)	DN : Not applicable : Not applicable
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA)	DN : Not applicable : Not applicable : 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	: 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

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 (as amended through 1 September 2015) CAS RN: 64742-57-0 Name: Residual oils, petroleum, hydrotreated
	Note(s): aU
	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, as amended through September 23, 2015 CAS RN: 64742-57-0 Name: Residual oils, petroleum, hydrotreated
	Canada. Categorization of Existing Substances on DSL (September 2006)
	CAS RN: 64742-57-0 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. Japan. Inventory of Existing & New Chemical Substances, as amended through July 30,

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2015
CAS RN: 64742-57-0 Name: Residual oils (petroleum), hydrotreated (en-US)
Japanese ENCS Number: (9)-1689
Japan. Industrial Safety & Health Law (ISHL) Inventory, as amended through June 26, 2015
CAS RN: 64742-57-0 Name: Residual oils (petroleum), hydrotreated (en-US)
Japanese ENCS Number: (9)-1689
Japanese ISHL Number: (9)-1689
Notes iencs: Grandfathered onto ISHL from ENCS according to the Chemical Substance Control Law.
VERT Verse Estation Observice International Action 27, 2045, second address Marc 2045, 25
KECI. Korea Existing Chemicals Inventory (January 27, 2015, amended through MoE 2015-95, July 1, 2015)
CAS RN: 64742-57-0
Name: Residual oils (petroleum), hydrotreated Korean ID Number: KE-30119
PICCS. Philippines. Inventory of Chemicals and Chemical Substances (PICCS) 2012
CAS RN: 64742-57-0 Name: Residual oils (petroleum), hydrotreated
U.S. Federal, TSCA. IUR 2006, Partially Exempt Petroleum Process Streams (40 CFR 710.46(b)(1))
CAS RN: 64742-57-0
Name: RESIDUAL OILS (PETROLEUM), HYDROTREATED CAS RN: 64742-57-0 may be regulated as a member of the Generics group for CAS
RN: 8012-95-1
Generics group name: PARAFFIN OILS
TSCA CDR, Partially Exempt Petroleum Process Streams (40 CFR 711.6(b)(1)) (September 6, 2011)
CAS RN: 64742-57-0 may be regulated as a member of the Generics group for CAS
RN: 8012-95-1 Generics group name: Paraffin oils
CAS RN: 64742-57-0 Name: Residual oils (petroleum), hydrotreated
TSCA High Production Volume (HPV) Chemicals: 1990, 1994 & Post-1994 Additions (01/20/06)
CAS RN: 64742-57-0 Name: RESIDUAL OILS, PETROLEUM, HYDROTREATED 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
. 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. 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,

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	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.
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. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: Zinc alkyl dithiophosphate,Calcium petroleum sulfonate,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).],Residual oils (petroleum), hydrotreated, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly greater than C25 and boiling above approximately 400 °C (752 °F).] are listed
SZW-lijst van mutagene stoffen	: Zinc alkyl dithiophosphate,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).],Residual oils (petroleum), hydrotreated, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly greater than C25 and boiling above approximately 400 °C (752 °F).] 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
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product The requirements from the Danish Working Environment Authorities regarding work with

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: Aquatic Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2 Eye Dam. 1 Serious eye damage/eye irritation, Category 1

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Skin Sens. 1	Sensitisation — Skin, Category 1
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
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