

Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 18/01/2018 Revision date: 18/01/2018

Version: 1.0

Chemical name : Distillates (petroleum), hydrotreated heavy naphthenic, Baseoil - unspecified EC IndexNo. : 6494465-00-7 EC-No. : 265-155-0 CAS-No. : 64742-52-5 BEACH registration No : 01-2119467170-45 Product code : 1 44003 Synonyms : Petroleum distillates, hydrotreated heavy aphthenic / Distillates (petroleum, hydrotreated heavy aphthenic / Naphthenic / Napht	a durat farma	
Trade name : ENCC Strate Marine Refrigeration N 68 Chemical name : Distillates (petroleum), hydrotreated heavy naphthenic, Baseoil - unspecified EC Index-No. : 649-466-0-7 EC-No. : 265-155-0 CAS-No. : 64742-52-5 REACH registration No : 01-211946/170-45 Product code : 144003 Synonyms : Petroleum distillates, hydrotreated heavy naphthenic / Distillates (petroleum), hydrotreated heavy naphthenic / Distillates, petroleum, Aydrotreated heavy naphthenic / Distillates (petroleum), hydrotreated heavy naphthenic / Distillates (petroleum), hydrotreated heavy naphthenic / Distillates, petroleum, Aydrotreated heavy naphthenic / Distillates (petroleum), hydrotreated heavy na	Oduct form	: Substance (UVCB)
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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       : Marine Refrigeration compressor 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 Marketing L.L.C         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         Energency number         Energency telephone number         Energency number         2.1. Classification of the substance or mixture         Classification according to Regulation (EC) No. 1272/2008 [CLP]         Not classified         Adverse physicochemical, human health and environmental effects         No additional information available         2.1. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [CLP]         No labelling applicable		<ul> <li>Petroleum distillates, hydrotreated heavy naphthenic / Distillates (petroleum), hydrotreated heavy naphthenic / Naphtha, hydrotreated heavy distillate / Petroleum distillate hydrotreated heavy naphthenic / Distillates, petroleum, hydrotreated heavy naphthenic (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 in the range of C20-50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C It contains relatively few normal paraffins.) / Distillates (petroleum) hydrotreated heavy naphthenic / Distillates (petroleum), hydrotreated heavy naphthenic - base oil - unspecified</li> </ul>
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Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance type : UVCE	3	
Name	Product identifier	%
Distillates, petroleum, hydrotreated heavy naphthenic	(CAS-No.) 64742-52-5 (EC-No.) 265-155-0 (EC Index-No.) 649-465-00-7 (REACH-no) 01-2119467170-45	100

Full text of H-statements: see section 16

# 3.2. Mixtures Not applicable

**SECTION 4: First aid measures Description of first aid measures** 4.1. 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. Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. First-aid measures after eye contact 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/effects after inhalation : May cause irritation to the respiratory tract. May cause drowsiness or dizziness. Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue Symptoms/effects after skin contact damage. May cause skin irritation / dermatitis. Symptoms/effects after eye contact May cause eye irritation. . Symptoms/effects after ingestion Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.

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

No additional information available

SECTION 5: Fire-fighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: carbon dioxide (CO2), water, dry chemical powder.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Will float and can be reignited on water surface. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Hydrogen sulfide. 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 measures
         Personal precautions, protective equipment and emergency procedures
6.1.
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.
                                                 Evacuate and limit access. Stop leak if safe to do so. Use ventilation/water spray/fog to
Emergency procedures
                                                 disperse vapours. Do not touch spilled material.
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#### 6.2. Environmental precautions

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

Safety Data Sheet

according to Regulation (EU) 2015/830

6.3. Methods and material for containme	ent 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 In case of small spillages in closed waters, contain product with floating barriers or other equipment.
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 practice. Take off contaminated clothes. Wash contaminated clothing prior to re-use.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storage conditions	: Store in a dry, cool and well-ventilated place.
Incompatible products	: Keep away from : Strong oxidizing agents.
Heat and ignition sources	: Keep away from open flames, hot surfaces and sources of ignition.
Special rules on packaging	: Keep only in original container. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources.
Packaging materials	: Stainless steel. Mild steel. Some synthetic materials may be unsuitable for container lining depending on the material specification and intended use. Compatibility should be checked wi the manufacturer.

### No additional information available

.1. Control param	eters		
ENOC Strata Marine R	efrigeration N 68 (64742-52-5)		
EU	IOELV TWA (mg/m <sup>3</sup> )	5 mg/m³	
Belgium	Limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>	
Belgium	Short time value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>	
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	5 mg/m³	
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	5 mg/m³	
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	10 mg/m³	
Greece	OEL TWA (mg/m <sup>3</sup> )	5 mg/m³	
Hungary	MK-érték	5 mg/m³	
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	5 mg/m³	
Lithuania	IPRV (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>	
Lithuania	TPRV (mg/m <sup>3</sup> )	3 mg/m³	
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	5 mg/m³	
Poland	NDS (mg/m <sup>3</sup> )	5	
Portugal	OEL TWA (mg/m <sup>3</sup> )	5 mg/m³	
Portugal	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>	
Romania	OEL TWA (mg/m <sup>3</sup> )	5	
Romania	OEL STEL (mg/m <sup>3</sup> )	10 mg/m³	
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1 mg/m³	
Slovakia	NPHV (priemerná) (ppm)	5 ppm	
Slovakia	OEL STEL (mg/m <sup>3</sup> )	3 mg/m³	
Slovakia	OEL STEL (ppm)	15 ppm	
Spain	VLA-ED (mg/m <sup>3</sup> )	5	
Spain	VLA-EC (mg/m <sup>3</sup> )	10 mg/m³	
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>	
Sweden	kortidsvärde (KTV) (mg/m3)	3 mg/m³	
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m³	

EN (English)

## Safety Data Sheet

according to Regulation (EU) 2015/830

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ENOC Strata Marine Refrigeration N 68 (64742-52-5)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, inhalation	5.4 mg/m <sup>3</sup>	
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. Protective gloves made of PVC. For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils

### Eye protection:

Use splash goggles when eye contact due to splashing is possible. DIN EN 166

### **Respiratory protection:**

CON OL DA

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 c	hemical properties	
Physical state	: Liquid	
Colour	: Amber	
Odour	: Characteristics.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: -30 °C	
Freezing point	: No data available	
Boiling point	: >250 °C	
Flash point	: 238 °C	
Auto-ignition temperature	: > 270 °C	
Decomposition temperature	: > 280 °C	
Flammability (solid, gas)	: No data available	
Vapour pressure	: 160 Pa @100°C	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 0.9112 g/ml @ 15°C	
Solubility	: Water: Insoluble in water	
Log Pow	: No data available	
Viscosity, kinematic	: 68 mm²/s @ 40°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

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SECTION	10: Stability and reactivity
10.1. Rea	activity
Stable under	normal conditions.
10.2. Ch	emical stability
Stable under	normal conditions.
10.3. Pos	ssibility of hazardous reactions
None known	under normal conditions of use. No polymerization.
10.4. Co	nditions to avoid
Keep away fr	om heat/sparks/open flames/hot surfaces No smoking.
10.5. Inc	ompatible materials
Strong oxidizi	ing agents.

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Sulfur oxides. Hydrogen sulphide (H2S).

SECTION 11: Toxicological information		
11.1. Information on toxicological effect	11.1. Information on toxicological effects	
Acute toxicity	: Not classified	
ENOC Strata Marine Refrigeration N 68 (6	4742-52-5)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	5.53 mg/l/4h	
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	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
ENOC Strata Marine Refrigeration N 68 (6	4742-52-5)	
Viscosity, kinematic	68 mm²/s @ 40°C	

SECTION 12: Ecological information		
12.1. Toxicity		
ENOC Strata Marine Refrigeration N 68 (64742-52-5)		
LC50 fish 1	> 100 mg/l	
12.2. Persistence and degradability		
ENOC Strata Marine Refrigeration N 68 (64742	-52-5)	
Persistence and degradability	Not readily biodegradable. Inherently biodegradable.	
12.3. Bioaccumulative potential		
ENOC Strata Marine Refrigeration N 68 (64742	-52-5)	
Bioaccumulative potential	Bioaccumulative potential.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
ENOC Strata Marine Refrigeration N 68 (64742-52-5)		
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

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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.	
Product/Packaging disposal recommendations	<ul> <li>Dispose of this material and its container to hazardous or special waste collection point. Recycle product or dispose safely. Refer to manufacturer/supplier for information on recovery/recycling.</li> </ul>	
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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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 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

ENOC Strata Marine Refrigeration N 68 is not on the REACH Candidate List ENOC Strata Marine Refrigeration N 68 is not on the REACH Annex XIV List

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Other information, restriction and prohibition : International regulatory information: regulations AICS: Australia. Inventory of Chemical Substances (AICS) (as amended through 7 February 2017) CAS RN: 64742-52-5, Name: Distillates, petroleum, hydrotreated heavy naphthenic 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 22 February 2017 CAS RN: 64742-52-5, Name: Distillates, petroleum, hydrotreated heavy naphthenic Canada. Ontario Inventory (incomplete), based on TSCA Initial Inventory (1979), Appendix A, Chemical Substance Identities, and TSCA Inventory Supplement 1 (1980) CAS RN: 64742-52-5, Name: Distillates (petroleum), hydrotreated heavy naphthenic Molecular formula: Unspecified Substance definition: 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 in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains relatively few normal paraffins. ENCS: Japan. Inventory of Existing & New Chemical Substances (ENCS), as amended through July 29, 2016 CAS RN: 64742-52-5, Name: Distillates (petroleum), hydrotreated heavy naphthenic (en-US) Japanese ENCS Number: (9)-1703 Japan. Industrial Safety& Health Law (ISHL) Inventory(as amended through December 27, 2016) CAS RN: 64742-52-5, Name: Distillates (petroleum), hydrotreated heavy naphthenic (en-US) Japanese ENCS Number: (9)-1703 Japanese ISHL Number: (9)-1703 Notes iencs Grandfathered onto ISHL from ENCS according to the Chemical Substance Control Law ('Kashinho'). KECI: Korea. Existing Chemicals Inventory (KECI, January 27, 2015, amended through MoE 2016-138, July 13, 2016) CAS RN: 64742-52-5, Name: Distillates (petroleum), hydrotreated heavy naphthenic Korean ID Number: KE-12543 PICCS: Philippines. Inventory of Chemicals and Chemical Substances (PICCS) 2014 CAS RN: 64742-52-5, Name: DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC TSCA: TSCA IUR 2006, Partially Exempt Petroleum Process Streams (40 CFR 710.46(b)(1)) CAS RN: 64742-52-5, Name: DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC CAS RN: 64742-52-5 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: 64742-52-5, Name: Distillates (petroleum), hydrotreated heavy naphthenic CAS RN: 64742-52-5 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: 64742-52-5, Name: DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC 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) 1, low hazard to waters (Classification according to VwVwS, Annex 3; ID No. 8812) 12th Ordinance Implementing the Federal : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV Netherlands SZW-lijst van kankerverwekkende stoffen : Distillates, petroleum, hydrotreated heavy naphthenic is listed

- : Distillates, petroleum, hydrotreated heavy naphthenic is listed

  - : The substance is not listed
  - : The substance is not listed

SZW-lijst van mutagene stoffen

giftige stoffen - Borstvoeding

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

NIET-limitatieve lijst van voor de voortplanting

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NIET-limitatieve lijst van voor de voortplanting : The substance is not listed giftige stoffen – Ontwikkeling

#### 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**

SDS	Safety Data Sheet			
	CAS - Chemical Abstracts Service			
	GHS - Globally Harmonised System			
	CSR - Chemical Safety Report			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
DNEL	Derived-No Effect Level			
EC50	Median effective concentration			
IATA	International Air Transport Association			
IMDG	International Maritime Dangerous Goods			
LC50	Median lethal concentration			
LD50	Median lethal dose			
LOAEL	Lowest Observed Adverse Effect Level			
NOAEC	No-Observed Adverse Effect Concentration			
NOAEL	No-Observed Adverse Effect Level			
NOEC	No-Observed Effect Concentration			
OECD	Organisation for Economic Co-operation and Development			
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail			
	PVC (Polyvinyl chloride).			
PNEC	Predicted No-Effect Concentration			
PBT	Persistent Bioaccumulative Toxic			
vPvB	Very Persistent and Very Bioaccumulative			
ATE	Acute Toxicity Estimate			
BCF	Bioconcentration factor			
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006			

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.

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