

Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 22/12/2015 Revision date: 22/12/2015

Supersedes:

Version: 1.0

Name	Product identifier	%	Classification according to Regulation (EC) No.
3.2. Mixture			
Not applicable			
3.1. Substance			
SECTION 3: Composition/informa	tion on ingredients		
2.3. Other hazards No additional information available			
No labelling applicable			
Labelling according to Regulation (EC) No	. 1272/2008 [CLP]		
2.2. Label elements			
Adverse physicochemical, human health a No additional information available	ind environmental effects		
Not classified			
	/		
Classification according to Regulation (EC			
2.1. Classification of the substance of			
SECTION 2: Hazards identification			
Emergency number	: +97143374400 (business hours)		
I.4.         Emergency telephone number			
ENOC Marketing L.L.C ENOC House I Dubai - United Arab Emirates			
1.3. Details of the supplier of the safe	ety data sheet		
1.2.2. Uses advised against No additional information available			
Jse of the substance/mixture	: Lubricant for heavy-fuel diesel engin	ne	
1.2.1. Relevant identified uses			
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised a	gainst	
Product code	: 252018		
Product name	: ENOC Strata MSD 350		
Product form	: Mixture		

			Regulation (EC) No. 1272/2008 [CLP]
Paraffin oils (petroleum), catalytic dewaxed heavy, Baseoil -	(CAS No) 64742-70-7	64.9	Carc. not classified according to
unspecified, [A complex combination of hydrocarbons obtained	(EC no) 265-174-4		note L of CLP
from a catalytic dewaxing process. It consists predominantly of	(EC index no) 649-477-00-2		
hydrocarbons having carbon numbers predominantly in the	(REACH-no) 01-2119487080-42-0003; 01-		(contains less than 3 % DMSO
range of C20 through C50 and produces a finished oil with a	2119487080-42 01-2119484627-25-0025;		extract)
viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C).]	01-2119484627-25 01-2119471299-27-		
(Note L)	0019; 01-2119471299-27		

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-Distillates (petroleum), hydrotreated heavy paraffinic (Note L)	(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	15	Carc. not classified according to note L of CLP (contains less than 3 % DMSO extract)
Phosphorodithioic acid, mixed O,O-bis(isobutyl and pentyl) esters, zinc salts-	(CAS No) 68457-79-4 (EC no) 270-608-0 (REACH-no) not available	0.2 - 0.5	Skin Irrit. 2, H315 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 effect	cts, 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 medica	I 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 su	bstance 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.
<b>SECTION 6: Accidental release mea</b>	sures
6.1. Personal precautions, protective eq	uipment 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 authorit	ies if liquid enters sewers or public waters.
6.3. Methods and material for containing	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.

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#### 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, include	ling 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



- Use splash goggles when eye contact due to splashing is possible. DIN EN 166
- : 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 ٦ŀ vical atat

Physical state	: Liquid
Colour	: brown.
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	: 260 °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

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Density	: 0.9231 g/cm³ @ 15.5°C
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: 11.6 mm²/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

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
Stable un	der normal conditions.
10.2.	Chemical stability
Stable un	der normal conditions.
10.3.	Possibility of hazardous reactions
None kno	wn under normal conditions of use. No polymerization.
10.4.	Conditions to avoid
Keep awa	ay from heat/sparks/open flames/hot surfaces No smoking.
10.5.	Incompatible materials
Strong ox	idizing 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
Phosphorodithioic acid, mixed O,O-bis(isobu	utyl and pentyl) esters, zinc salts- (68457-79-4)
LD50 oral rat	1830 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
-Distillates (petroleum), hydrotreated heavy	oaraffinic (64742-54-7)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 5000 mg/m <sup>3</sup>
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
ENOC Strata MSD 350	
Viscosity, kinematic	11.6 mm²/s @ 100°C

SECTION 12: Ecological information		
12.1. Toxicity		
Phosphorodithioic acid, mixed O,O-bis(isobu	tyl and pentyl) esters, zinc salts- (68457-79-4)	
LC50 fish 1	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])	
LC50 fish 2	25 - 50 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	4.0 - 6.0 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 96h algae (1)	1.0 - 5.0 mg/l (Species: Pseudokirchneriella subcapitata)	
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-Distillates (petroleum), hydrotreated heavy	
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 assessme	ent
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 consideration	ns
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 / A	DN
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
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	· Not applicable
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
	: Not applicable

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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

#### Special precautions for user 14.6.

- 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**

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.

#### 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	:	<ul> <li>International regulatory information: AICS: Australia. Inventory of Chemical Substances (AICS) (as amended through 1 Septer 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 produ a chemical reaction, or a biological material (UVCB); the Australian inventory denotes this putting an asterisk (*) after the CAS number.</li> </ul>		
		DSL: Canada. Domestic Substances List (DSL), as amended through September 23, 2019 CAS RN: 64742-70-7 may be regulated as a member of the Generics group for CAS RN: 4 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 M 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	8012-	
		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)) (Septemb	oer 6,	
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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
. 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) 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.

### 15.1.2. National regulations

#### Germany

VwVwS Annex reference

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

: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

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

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Netherlands					
SZW-lijst van kankerverwekkende stoffen	: -Distillates (petroleum), hydrotreated heavy paraffinic, 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).],Phosphorodithioic acid, mixed O,O-bis(isobutyl and pentyl) esters, zinc salts- are listed				
SZW-lijst van mutagene stoffen	: -Distillates (petroleum), hydrotreated heavy paraffinic,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).],Phosphorodithioic acid, mixed O,O-bis(isobutyl and pentyl) 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				
Recommendations Danish Regulation	: The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal				
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:

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		
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