

Safety Data Sheet

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

Version: 1.0

Supersedes:

Name			Product identifier	%	Classification according to Regulation (EC) No.
3.2.	Mixture				
Not appl	licable				
3.1.	Substance				
SECT	ION 3: Composition/informat	tion <u>on in</u>	gredients		
No addit	tional information available				
2.3. Other hazards					
No label	lling applicable				
	ng according to Regulation (EC) No.	. 1272/2008	[CLP]		
2.2. Label elements					
No addit	tional information available				
	e physicochemical, human health a	nd environn	nental effects		
Not clas	sified				
	cation according to Regulation (EC) NO. 1272/2	008 [CLP]		
2.1.					
	ION 2: Hazards identification Classification of the substance of				
_		``	ness hours)		
1.4. Emergei	Emergency telephone number ncy number	: +9714	13374400		
۲ +971 4	United Arab Emirates 4 313 4613 - F +971 4 313 4616				
ENOC H	House I				
	Details of the supplier of the safe Marketing L.L.C	ly uala shee	£L		
1.3.		tu data chac			
1.2.2. No addit	Uses advised against tional information available				
		. Eddine	and for heavy fuel dieser engine		
1.2.1.	Relevant identified uses he substance/mixture	· Lubric	ant for heavy-fuel diesel engine		
1.2.	Relevant identified uses of the su	bstance or	mixture and uses advised aga	inst	
Product	code	: 25200)2		
Product		-	OC Strata MSD 440		
roduct	form	: Mixtu	re		
	i i oudot i doitainoi				
.1.	Product identifier				

			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	78.9	Carc. not classified according to note L of CLP (contains less than 3 % DMSO extract)

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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	5	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 - 0.4	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	s, 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 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.	
SECTION 6: Accidental release measures		

SECTION 6: Accidental release measures			
6.1. Personal precautions, pro	Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Protective equipment	: Wear personal protection equipment.		
Emergency procedures	: Evacuate area. Avoid contact with skin, eyes and clothes.		
6.1.2. For emergency responde	rs		
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 precaution	ns		

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 conta	ainment	:	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, includi	ng 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	: 0.9101 g/cm³ @ 15.5°C
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: 14.5 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

SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
Stable u	Stable under normal conditions.		
10.2.	Chemical stability		
Stable u	inder 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	
Phosphorodithioic acid, mixed O,O-bis(isobutyl and pentyl) esters, zinc salts- (68457-79-4)		
LD50 oral rat	1830 mg/kg	
LD50 dermal rabbit	> 3160 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	
ENOC Strata MSD 440		
Viscosity, kinematic	14.5 mm²/s @ 100°C	

SECTION 12: Ecological information

^{12.1.} Toxicity

Phosphorodithioic acid, mixed O,O-bis(isobutyl 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)

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil No additional information available	
12.5. Results of PBT and vPvB asses	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ations
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	ion
In accordance with ADR / RID / IMDG / IAT	A / ADN
14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
Transport hazard class(es) (IATA)	. Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

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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 International regulatory information: AICS: Australia. Inventory of Chemical Substances (AICS) (as amended through 1 September regulations 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

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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 (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, 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.
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))
CÁS 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
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Notes: 0 Chemical is a candidate for sponsorship under the HPV Challenge Program. F Fully Sponsored Chemical.

15.1.2. National regulations

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

VwVwS Annex reference

Germany

Netherlands

: 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)

SZW-lijst van kankerverwekkende stoffen 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).], Phosphorodithioic acid, mixed O,Obis(isobutyl and pentyl) esters, zinc salts- are listed Paraffin oils (petroleum), catalytic dewaxed heavy, Baseoil - unspecified, [A complex SZW-lijst van mutagene stoffen 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).], Phosphorodithioic acid, mixed O,Obis(isobutyl and pentyl) esters, zinc salts- are listed NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen - Borstvoeding NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen - Vruchtbaarheid NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen - Ontwikkeling 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