

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 8-4-2011 Revision date: 29-4-2015 version: 3.1

Product name £ 2. Stroke Gear Oli 10W-40 Semi-Synthetic Product code £ 5300 2.2. Relevant Identified uses of the substance or mixture and uses advised against		chance and the substan	nce/mixture and of the con	mpany/undertaking	
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Not classified Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements	United Kingdom	Unit Medical Toxicology Unit, Centre		0670 243 2241	
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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	(CAS No) 72623-87-1 (EC No) 276-738-4 (EC Index No) 649-483-00-5 (REACH-no) 01-2119474889-13	1 - 15	Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).]	(CAS No) 64742-65-0 (EC No) 265-169-7 (EC Index No) 649-474-00-6 (REACH-no) 01-2119471299-27	1 - 2,5	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic, Baseoil - unspecified.	(CAS No) 64742-55-8 (EC No) 265-158-7 (EC Index No) 649-468-00-3	1 - 2,5	Asp. Tox. 1, H304
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec- butyl)]bis(dithiophosphate)	(CAS No) 93819-94-4 (EC No) 298-577-9 (REACH-no) 01-2119543726-33	0,1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts	(CAS No) 84605-29-8 (EC No) 283-392-8 (REACH-no) 01-2119493626-26	0,1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Specific concentration limits:			
Name	Product identifier	Specific c	oncentration limits

10	Product identifier	Specific concentration limits
phorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and	(CAS No) 84605-29-8	(6,25 = <c 100)="" 2,="" <="" h315<="" irrit.="" skin="" th=""></c>
r)esters, zinc salts	(EC No) 283-392-8	(10 = <c 12,5)="" 2,="" <="" eye="" h319<="" irrit.="" td=""></c>
	(REACH-no) 01-2119493626-26	(12,5 = <c 1,="" 100)="" <="" dam.="" eye="" h318<="" td=""></c>

Full text of H-statements: see section 16

4.1. Description of first aid	1 measures
General	: In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).
After inhalation	: Not required.
After skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
After eye contact	: Wash immediately with lots of water.
After ingestion	: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.
4.2. Most important symp	toms and effects, both acute and delayed
Symptoms/injuries	: In case of accident or if you feel unwell, seek medical advice immediately (show this label if possible).
After inhalation	: None under normal use.
After skin contact	: Contact during a long period may cause light irritation.
After eye contact	: May cause slight irritation.
After ingestion	: Harmful: may cause lung damage if swallowed.
4.3. Indication of any imm	ediate medical attention and special treatment needed
First Aid, decontamination, treatm	nent of symptoms.
SECTION 5: Firefighting	measures
5.1. Extinguishing media	
No additional information availabl	e
5.2. Special hazards arisir	ng from the substance or mixture
Fire hazard	: Although this substance has flammability data, it is difficult to ignite in air and is classified as non-flammable.
5.3. Advice for firefighters	
Other information	: Use water spray/stream to protect personnel and to cool endangered containers.

SECTIO	SECTION 6: Accidental release measures	
6.1.	Personal precautions, protective equ	Jipment and emergency procedures
General r	neasures	: Keep away from sources of ignition - No smoking.

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0	o ()	5 ()
6.1.1.	For non-emergency personnel	
No addit	tional information available	
6.1.2.	For emergency responders	
No addit	tional information available	
6.2.	Environmental precautions	
	elease to the environment. Prevent spreadin or public waters.	g over great surfaces (e.g. by damming or installing oil booms). Notify authorities if liquid enters
6.3.	Methods and material for containment	and cleaning up
No addit	tional information available	
6.4.	Reference to other sections	
No addit	tional information available	
SECTI	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
No addit	tional information available	
7.2.	Conditions for safe storage, including	any incompatibilities
Storage	temperature :	< 50 °C
Storage	area	Ensure adequate ventilation of the storage area. Keep container tightly closed and dry.
7.3.	Specific end use(s)	
No addit	tional information available	
SECTI	ION 8: Exposure controls/person	al protection
8.1.	Control parameters	

Additional information

: Based on ACGIH TLV, a concentration of 5 mg/m3 oilspray (TWA, 8 hour workday) is recommended.

8.2. Exposure controls

Technical measures:

If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

Materials for protective clothing:

Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. Suitable material: nitrile rubber

Hand protection:

Wear suitable gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Boiling point	: No data available	
Freezing point	: No data available	
Melting point	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
рН	: No data available	
Odour threshold	: No data available	
Odour	: characteristic.	
Colour	: Yellowbrown.	
Appearance	: Oily.	
Physical state	: Liquid	
9.1. Information on basic physical and	chemical properties	
SECTION 9: Physical and chemical properties		

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Flash point	: > 220 °C ASTM D 92
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	: 876 g/l
Solubility	: Slightly soluble, the product remains on the water surface.
Log Pow	: No data available
Viscosity, kinematic	: 100 mm²/s
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1 - 6 vol %
0.0 Others information	

9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
None u	nder normal use.
10.2.	Chemical stability
The pro	duct is stable at normal handling- and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
None u	nder normal use.
10.5.	Incompatible materials
Oxidiziı	ng substances. Acids and bases.

 10.6.
 Hazardous decomposition products

 On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

SECTION 11: Toxicological infor	mation
11.1. Information on toxicological eff	
Acute toxicity	: Not classified
-	c-butyl)]bis(dithiophosphate) (93819-94-4)
LD50 oral rat	2600 mg/kg
LD50 dermal rat	> 3160 mg/kg OECD 402
Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)
LD50 oral rat	3600 mg/kg OECD 401
LD50 dermal rat	20000 mg/kg OECD 402
	roleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having
carbon numbers predominantly in the i 100 °F (19cSt at 40 °C).] (64742-65-0)	range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at
	range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at > 5000 mg/kg
100 °F (19cSt at 40 °C).] (64742-65-0)	
100 °F (19cSt at 40 °C).] (64742-65-0) LD50 oral	> 5000 mg/kg
100 °F (19cSt at 40 °C).] (64742-65-0) LD50 oral LD50 dermal rabbit LC50 inhalation rat (mg/l)	> 5000 mg/kg > 5000 mg/kg
100 °F (19cSt at 40 °C).] (64742-65-0) LD50 oral LD50 dermal rabbit LC50 inhalation rat (mg/l)	> 5000 mg/kg > 5000 mg/kg 5,53 mg/l/4h
100 °F (19cSt at 40 °C).] (64742-65-0) LD50 oral LD50 dermal rabbit LC50 inhalation rat (mg/l) Distillates (petroleum), hydrotreated lig	> 5000 mg/kg > 5000 mg/kg 5,53 mg/l/4h yht paraffinic, Baseoil - unspecified. (64742-55-8)
100 °F (19cSt at 40 °C).] (64742-65-0) LD50 oral LD50 dermal rabbit LC50 inhalation rat (mg/l) Distillates (petroleum), hydrotreated lig LD50 oral rat LD50 oral rat	> 5000 mg/kg > 5000 mg/kg 5,53 mg/l/4h ght paraffinic, Baseoil - unspecified. (64742-55-8) > 5000 mg/kg
100 °F (19cSt at 40 °C).] (64742-65-0) LD50 oral LD50 dermal rabbit LC50 inhalation rat (mg/l) Distillates (petroleum), hydrotreated lig LD50 oral rat LD50 dermal rabbit Skin corrosion/irritation	> 5000 mg/kg > 5000 mg/kg 5,53 mg/l/4h ght paraffinic, Baseoil - unspecified. (64742-55-8) > 5000 mg/kg > 3000 mg/kg
100 °F (19cSt at 40 °C).] (64742-65-0) LD50 oral LD50 dermal rabbit LC50 inhalation rat (mg/l) Distillates (petroleum), hydrotreated lig LD50 oral rat LD50 dermal rabbit Skin corrosion/irritation Serious eye damage/irritation	> 5000 mg/kg > 5000 mg/kg 5,53 mg/l/4h ght paraffinic, Baseoil - unspecified. (64742-55-8) > 5000 mg/kg > 3000 mg/kg : Not classified
100 °F (19cSt at 40 °C).] (64742-65-0) LD50 oral LD50 dermal rabbit LC50 inhalation rat (mg/l) Distillates (petroleum), hydrotreated lig LD50 oral rat LD50 dermal rabbit Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation	> 5000 mg/kg > 5000 mg/kg 5,53 mg/l/4h ght paraffinic, Baseoil - unspecified. (64742-55-8) > 5000 mg/kg > 5000 mg/kg > 3000 mg/kg : Not classified : Not classified
100 °F (19cSt at 40 °C).] (64742-65-0)LD50 oralLD50 dermal rabbitLC50 inhalation rat (mg/l)Distillates (petroleum), hydrotreated ligLD50 oral rat	> 5000 mg/kg > 5000 mg/kg 5,53 mg/l/4h ght paraffinic, Baseoil - unspecified. (64742-55-8) > 5000 mg/kg > 5000 mg/kg > 3000 mg/kg : Not classified : Not classified : Not classified : Not classified

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Reproductive toxicity STOT-single exposure STOT-repeated exposure	 Not classified Not classified Not classified
removal of normal paraffins from a petroleun	vy paraffinic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by n fraction by solvent crystallization. It consists predominantly of hydrocarbons having of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day
NOAEL (inhalation, rat, dust/mist/fume, 90 days)	> 980 mg/l/6h/day
NOAEL (subchronic, oral, animal/male, 90 days)	>= 2000 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	>= 2000 mg/kg bodyweight
Aspiration hazard	: Not classified
2-Stroke Gear Oil 10W-40 Semi-Synthetic	
Viscosity, kinematic	100 mm²/s

SECTION 12: Ecological information

12.1. Toxicity

Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)			
LC50 fish 1	4,5 ml/l OECD 203 (oncorhynchys mykiss, 96h)		
EC50 Daphnia 1	5,4 mg/l OECD 202, (Daphnia magna, 72h)		
EC50 other aquatic organisms 1	2,1 ml/l OECD 201 (Selenastrum capricornutum , 48h)		
Phosphorodithioic acid, mixed 0,0-bis(1,3-dim	Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)		
LC50 fish 1	46 mg/l @ 96 h		
EC50 Daphnia 1	23 mg/l @ 48 h		
EC50 other aquatic organisms 1	2 mg/l @ 96 h Algae		
NOEC (acute)	< 0,1 mg/l @ 48 h Daphnia magna		

12.2. Persistence and degradability

2-Stroke Gear Oil 10W-40 Semi-Synthetic			
Persistence and degradability	Not soluble in water, so only minimally biodegradable.		
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)			
Biodegradation	1,5 % OECD 301B 28d		
Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)			
Persistence and degradability	Poorly biodegradable.		
Biodegradation	1,5 % @28d		
12.3. Bioaccumulative potential			
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)			
Log Pow	0,9 @ 23C		
Phosphorodithioic acid, mixed 0,0-bis(1,3-dim	Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)		
Bioconcentration factor (BCF REACH)	< 100		
Log Kow	0,6		
Bioaccumulative potential	not bioaccumulable.		
Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)			
Log Pow	>3		
12.4. Mobility in soil			
Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)			
Soil	No information available.		

12.5. Results of PBT and vPvB assessment

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Component	
Phosphorodithioic acid, mixed 0,0-bis(1,3- dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	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	ations
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste disposal according to official state regulations.
European List of Waste (LoW) code	: 13 02 00 - Waste engine, gear and lubricating oils. 13 02 05- Mineral-based non-chlorinated engine, gear and lubricating oils. 15 01 10 Packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN		
ADR	IMDG	
14.1. UN number		
Not applicable	Not applicable	
14.2. UN proper shipping name		
Not applicable	Not applicable	
14.3. Transport hazard class(es)		
Not applicable	Not applicable	
Not applicable	Not applicable	
14.4. Packing group		
Not applicable Not applicable		
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	
No supplementary information available		

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

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

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
00.10.0010		0.17

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

SDS MPM REACH

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