

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 MADE IN HOLLAND Date of issue: 28-2-2014 Revision date: 5-4-2018 Supersedes: 20-6-2017 Version: 1.5

Product form	
	: Mixture
Product code	: Lub002080
Type of product	: Lubricant
Product group	: Lubricant
1.2. Relevant identified uses of	the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Lubricant
Function or use category	: Lubricants and additives
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of th	e safety data sheet
Rymax b.v. Delweg 8 6902 PJ Zevenaar T +31 (0)316 740840 - F +31 (0)316 74 info@rymax-lubricants.com - www.ryma	
1.4. Emergency telephone num	ber
	ber : +31 (0)316 740840
1.4. Emergency telephone num	
1.4. Emergency telephone num Emergency number	: +31 (0)316 740840
1.4. Emergency telephone number   Emergency number   SECTION 2: Hazards identification   2.1. Classification of the substation   Classification according to Regulation   Not classified   Adverse physicochemical, human here	: +31 (0)316 740840 ance or mixture on (EC) No. 1272/2008 [CLP]

Labelling according to Regulation	(EC) No. 1272/2008 [CLP]
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**EUH-statements** 

- : EUH210 Safety data sheet available on request. EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.
- 2.3. Other hazards Other hazards not contributing to the : Flammable liquids. Prolonged or repeated skin contact with the material will remove natural oils classification which leads to a dermatitis. Spills of this product present a serious slipping hazard.

### **SECTION 3: Composition/information on ingredients**

#### 3.1. **Substances**

Not applicable

#### **Mixtures** 3.2.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Decene,homopolymer,hydrogenated	(CAS-No.) 68037-01-4 (EC-No.) 500-183-1 (REACH-no) 01-2119486452-34	>= 75	Asp. Tox. 1, H304

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Name	Product identifier	Specific c	oncentration limits
Specific concentration limits:			
C14-16-18 Alkyl phenol	(EC-No.) 931-468-2 (REACH-no) 01-2119498288-19	0,1 - 5	Skin Sens. 1B, H317 STOT RE 2, H373
bis(nonylphenyl)amine	(CAS-No.) 36878-20-3 (EC-No.) 253-249-4 (REACH-no) 01-2119488911, 01- 2119488911-28	0,1 - 5	Aquatic Chronic 4, H413
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	0,5 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
1-Dodecene, trimer, hydrogenated	(CAS-No.) 68037-01-4 (EC-No.) 500-183-1 (REACH-no) 01-2119486452-34	1 - 5	Asp. Tox. 1, H304
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating light vacuum gas oil, heavy vacuum gas oil and solvent deasphalted residual oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon humbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of approximately 32cSt at 40 °C. It contains a relatively large proportion of saturated hydrocarbons.]	(CAS-No.) 72623-87-1 (EC-No.) 276-738-4 (EC Index-No.) 649-483-00-5 (REACH-no) 01-2119474889-13	1 - 10	Asp. Tox. 1, H304

(CAS-No.) 93819-94-4 (EC-No.) 298-577-9

(REACH-no) 01-2119543726-33

( 6,25 <C <= 100) Skin Irrit. 2, H315 ( 10 <C <= 12,5) Eye Irrit. 2, H319 ( 12,5 <C <= 100) Eye Dam. 1, H318

Full text of H-statements: see section 16

Zinc bis{O-(6-methylheptyl)} bis {O(sec-butyl)} bis dithiophosphate)

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/effects	: After adequate first aid, no further treatment is required unless symptoms reappear.
Symptoms/effects after inhalation	: After adequate first aid, no further treatment is required unless symptoms reappear.
Symptoms/effects after skin contact	: After adequate first aid, no further treatment is required unless symptoms reappear.
Symptoms/effects after ingestion	: After adequate first aid, no further treatment is required unless symptoms reappear.
4.3. Indication of any immediate media	cal attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the s	substance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Eliminate all ignition sources if safe to do so.
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
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6.3. Methods and material for containment and cleaning up		
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.	
Methods for cleaning up	: Take up liquid spill into absorbent material.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
For further information refer to section 13.		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, in	cluding any incompatibilities	
Storage conditions	: Store in a well-ventilated place. Keep cool.	
Storage temperature	: 45 °C	
Storage area	: Store away from heat. Store in a well-ventilated place.	
Special rules on packaging	: Keep only in original container. Store in a closed container.	
7.3. Specific end use(s)		

No additional information available

**SECTION 8: Exposure controls/personal protection** 

### 8.1. Control parameters

Zinc bis{O-(6-methylheptyl)} bis {O(sec-butyl)} bis dithiophosphate) (93819-94-4)				
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>		
USA - ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>		
bis(nonylphenyl)amine (368	bis(nonylphenyl)amine (36878-20-3)			
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>		
USA - ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 fibers/cm <sup>3</sup>		
USA - ACGIH	ACGIH STEL (ppm)	0 ppm		
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating light vacuum gas oil, heavy vacuum gas oil and solvent deasphalted residual oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. 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 approximately 32cSt at 40 °C. It contains a relatively large proportion of saturated hydrocarbons.] (72623-87-1)				

EU	IOELV TWA (mg/m <sup>3</sup> )	5 mg/m³
EU	IOELV STEL (mg/m <sup>3</sup> )	10 mg/m³

### 8.2. Exposure controls

### Appropriate engineering controls:

Use adequate ventilation to keep oil mist below applicable standard. Use splash goggles when eye contact due to splashing is possible. Ocular shower with suitable liquid.

### Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Avoid all unnecessary exposure.

### Materials for protective clothing:

Wear suitable protective clothing

#### Hand protection:

Breakthrough time : refer to the recommendations of the supplier

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR), Neoprene rubber (HNBR)	5 (> 240 minutes)	0.7	3 (> 0.65)	EN 374
	Polyvinylchloride (PVC)	2 (> 30 minutes)	0.4	3 (> 0.65)	EN 374

#### Eye protection:

Chemical goggles or safety glasses. Use splash goggles when eye contact due to splashing is possible. EN 166

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### Skin and body protection:

Avoid prolonged and repeated contact with skin. If repeated skin contact or contamination of clothing is likely, protective clothing should be worn

#### Respiratory protection:

Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Particle filter. EN 143

Personal protective equipment symbol(s):



#### Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Characteristics.
Colour	: Brown.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: -45 °C
Boiling point	: No data available
Flash point	: >201 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 848 kg/m³ @15°c
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: 165,1 mm²/s @40°c
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
	One Developed Deter Object for detailed information

Other properties

: See Product Data Sheet for detailed information.

## **SECTION 10: Stability and reactivity**

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
No dang	erous reactions known under normal conditions of use.
10.4.	Conditions to avoid
None un	der recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials

No additional information available

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10.6. Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
1-Dodecene, trimer, hydrogenated (68037-01-		
LD50 oral (rat)	> 5000 mg/kg	
LD50 dermal (rabbit)	> 2000 mg/kg	
1-Decene,homopolymer,hydrogenated (68037		
LD50 oral (rat)	5000 mg/kg	
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	5,2 mg/l/4h	
Zinc bis{O-(6-methylheptyl)} bis {O(sec-butyl)		
LD50 oral (rat)	2600 mg/kg	
LD50 dermal (rabbit)	> 3160 mg/kg OECD 402	
bis(nonylphenyl)amine (36878-20-3)		
LD50 oral (rat)	> 5000 mg/kg	
LD50 dermal (rat)	> 2000 mg/kg	
C14-16-18 Alkyl phenol		
LD50 oral (rat)	5000 mg/kg	
LD50 dermal (rabbit)	> 2000 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	
STOT-single exposure	: Not classified	
	: Not classified	
1-Decene,homopolymer,hydrogenated (68037 NOAEL (oral, rat, 90 days)	4159,4 mg/kg bodyweight/day	
NOAEL (subacute, oral, animal/male, 28 days)	6245 mg/kg bodyweight	
	: Not classified	
Apollo R SAE 10W/60		
Viscosity, kinematic	165,1 mm²/s @40°c	
SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Acute aquatic toxicity	: Not classified	
1	: Not classified	
· · ·		
1-Dodecene, trimer, hydrogenated (68037-01-		
LC50 fish 1	750 mg/l	
EC50 Daphnia 1	1000 mg/l	
EC50 96h algae (1)	96 mg/l	
NOEC chronic algae	> ng/l	
Zinc bis{O-(6-methylheptyl)} bis {O(sec-butyl)		
LC50 fish 1	4,5 mg/l Oncorhynchus mykiss (Rainbow trout)	
EC50 Daphnia 1	5,4 mg/l EC50 48h - Daphnia magna [mg/l]	
EC50 96h algae (1)	2,1 mg/l Selenastrum capricornutum	

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bis(nonylphenyl)amine (36878-20-3)	
LC50 fish 1	> 100 mg/l Danio rerio
EC50 Daphnia 1	> 100 mg/l Daphnia magna
EC50 72h algae (1)	> 100 mg/l Desmodesmus subspicatus
NOEC chronic algae	100 mg/l

### 12.2. Persistence and degradability

1-Dodecene, trimer, hydrogenated (68037-01-4)			
Persistence and degradability	Not biodegradable.		
1-Decene,homopolymer,hydrogenated (68037-	1-Decene,homopolymer,hydrogenated (68037-01-4)		
Persistence and degradability	Not readily biodegradable.		
Zinc bis{O-(6-methylheptyl)} bis {O(sec-butyl)} bis dithiophosphate) (93819-94-4)			
Persistence and degradability	Not readily biodegradable.		
Biodegradation	1,5 % OECD-testrichtlijn 301 B		
bis(nonylphenyl)amine (36878-20-3)			
Persistence and degradability	Not biodegradable.		
Biodegradation	1 % 28 Days (OECD 301 B)		

### 12.3. Bioaccumulative potential

Zinc bis{O-(6-methylheptyl)} bis {O(sec-butyl)} bis dithiophosphate) (93819-94-4)		
Log Pow	0,9 @23°C	
bis(nonylphenyl)amine (36878-20-3)		
Bioconcentration factor (BCF REACH)	1730	
Log Pow	> 7,6	
Bioaccumulative potential	Bioaccumulative potential.	

#### 12.4. Mobility in soil

Zinc bis{O-(6-methylheptyl)} bis {O(sec-butyl)} bis dithiophosphate) (93819-94-4)	
Ecology - soil	Adsorbs into the soil.
bis(nonylphenyl)amine (36878-20-3)	
Ecology - soil	Adsorbs into the soil.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of contents/container to an approved waste disposal plant, See Directive 2001/118/EC.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / 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		
20.7.0040		C/0

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Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
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
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 Anne	ex II of Marpol and the IBC Code
Not applicable SECTION 15: Regulatory information	
	gulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
Contains no REACH substances with Annex XV Contains no substance on the REACH candidate Contains no REACH Annex XIV substances	
15.1.2. National regulations	
Germany	
Reference to AwSV	: Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands Ministry's list of carcinogens	: Zinc bis{O-(6-methylheptyl)} bis {O(sec-butyl)} bis dithiophosphate) is listed

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Ministry's list of mutagens	: Zinc bis{O-(6-methylheptyl)} bis {O(sec-butyl)} bis dithiophosphate) is listed	
NON-exhaustive list of reproductive toxins - Breastfeeding	: None of the components are listed	
NON-exhaustive list of reproductive toxins - Fertility	: None of the components are listed	
NON-exhaustive list of reproductive toxins - Evolution	: None of the components are listed	
Denmark		
Danish National Regulations	: Pregnant/breastfeeding women working with the product must not be in direct contact with the product	

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out **SECTION 16: Other information** 

Indication of ch	anges:		
Section	Changed item	Change	Comments
2.2	EUH-statements	Modified	
3	Composition/information on	Modified	
8.2	ingredients Skin and body protection	Modified	
8.2	Hand protection	Modified	
9.1	Freezing point	Modified	
9.1	Viscosity, kinematic	Modified	
9.1	Odour	Removed	
9.1	Flash point	Modified	
9.1	Colour	Modified	
9.1	Density	Modified	
Abbreviations a	and acronyms:		
ADN	European Agreement concerning the	International Carriage of Danger	ous Goods by Inland Waterways
ADR	European Agreement concerning the	International Carriage of Danger	ous Goods by Road
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC50	Median effective concentration		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Associatio	International Air Transport Association	
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Lev	el	
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
REACH	Registration, Evaluation, Authorisatio	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
PNEC	Predicted No-Effect Concentration		
PBT	Persistent Bioaccumulative Toxic		
RID	Regulations concerning the Internation	nal Carriage of Dangerous Good	s by Rail
SDS	Safety Data Sheet		
vPvB	Very Persistent and Very Bioaccumul	ative	

### Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2

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H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	
EUH208	Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	

### SDS EU (REACH Annex II) RYMAX

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