

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 1/06/2018 Revision date: 3/07/2019 Supersedes: 1/06/2018 Version: 1.1

SECTION 1: Identification of the substan	ce/mixture and of the compan	y/undertakin	g
1.1. Product identifier Product form	: Mixture		
Product name	: HIGHWAY 10W40		
Product name	: 31055		
Product group	: Blend		
1.2. Relevant identified uses of the substance		ainct	
1.2. Relevant identified uses of the substance	e of finixture and uses advised aga	amst	
1.2.1. Relevant identified uses			
0,	: Industrial use, Professional use, Consum	ner use	
Industrial/Professional use spec	: Non-dispersive use		
Eurotian or use actorian	Used in closed systems		
Function or use category	: Lubricants and additives		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety data	sheet		
Oman Lubricants			
Mandenmakerstraat 21-25 2984 AS Ridderkerk			
Nederland			
T 0031 (0)10-4140046			
info@oman-lubricants.nl - www.oman-lubricants.nl			
1.4. Emergency telephone number			
Emergency number : +(0344 892 0111 (EN)		
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixtur	e		
Classification according to Regulation (EC) No. 12	72/2008 [CL P]		
Not classified			
A design of the standard burner is a little and south			
Adverse physicochemical, human health and envir No additional information available	ronmental effects		
2.2. Label elements			
Labelling according to Regulation (EC) No. 1272/20			
EUH-statements	: EUH210 - Safety data sheet available	on request.	
2.3. Other hazards No additional information available			
No additional information available			
SECTION 3: Composition/information on	ingredients		
3.1. Substances			
Not applicable			
3.2. Mixtures Comments	: The mineral oils in the product con	toin + 20/ DMS(ovtraat (ID 246)
Comments			
Name	Product identifier	%	Classification according to
			Regulation (EC) No.
			1272/2008 [CLP]
Phosphorodithioic acid, mixed O,O-bis(1,3-	(CAS-No.) 84605-29-8	1 - 1,99	Skin Irrit. 2, H315
dimethylbutyl and iso-Pr) esters, zinc salts	(EC-No.) 283-392-8		Eye Dam. 1, H318
	(REACH-no) 01-2119493626-26		Aquatic Chronic 2, H411
Phenol, dodecyl-, branched	(CAS-No.) 121158-58-5	0,01 - 0,24	Skin Corr. 1C, H314
	(EC-No.) 310-154-3		Eye Dam. 1, H318
	(REACH-no) 01-2119513207-49		Repr. 1B, H360F Aquatic Acute 1, H400 (M=10)
			Aquatic Chronic 1, H410 (M=10)
Specific concentration limiter		<u> </u>	
Specific concentration limits:			
Name	Product identifier	Specific cor	centration limits
Phosphorodithioic acid, mixed O,O-bis(1,3-	(CAS-No.) 84605-29-8	(6,25 = <c 1<="" <="" td=""><td>00) Skin Irrit. 2, H315</td></c>	00) Skin Irrit. 2, H315
dimethylbutyl and iso-Pr) esters, zinc salts	(EC-No.) 283-392-8	(10 = <c 12,<="" <="" td=""><td>5) Eye Irrit. 2, H319</td></c>	5) Eye Irrit. 2, H319
	(REACH-no) 01-2119493626-26	(12,5 = <c 1<="" <="" td=""><td>00) Eye Dam. 1, H318</td></c>	00) Eye Dam. 1, H318

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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	: Not expected to require first aid measures.
First-aid measures after skin contact	: Wash skin with mild soap and water.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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	: Water fog. Foam. Powder. Dry chemical product.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	nce or mixture
No additional information available	
5.3. Advice for firefighters	
Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel Protective equipment	: Wear suitable protective clothing and gloves.	
6.1.2. For emergency responders		
Protective equipment	: Wear suitable protective clothing and gloves.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.		
6.3. Methods and material for containment and cleaning up		
For containment	: Impound and recover large spill by mixing it with inert granular solids.	
Methods for cleaning up	: Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.	
Other information	: Spill area may be slippery. Use suitable disposal containers.	
6.4. Reference to other sections		
No additional information available		

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.	
Handling temperature	: < 40 °C	
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage temperature	: < 40 °C	
Storage area	: Store in dry, cool, well-ventilated area.	
7.3. Specific end use(s) No additional information available		

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SECTION 8: Exposure controls/personal protection 8.1. Control parameters

Additional information

: 5 mg/m3 for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

8.2. Exposure controls

Personal protective equipment:

Safety glasses. Gloves.

Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:

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

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical pr	operties	
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Oily liquid.	
Colour	: Yellow-brown.	
Odour	: Characteristic.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: > 200 °C @ ASTM D92	
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	: 861 kg/m³ @15°C	
Solubility	: Slightly soluble, the product remains on the water surface.	
Log Pow	: No data available	
Viscosity, kinematic	: 90 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		
No additional information available		

SECTION 10: Stability and reactivity	
10.1. Reactivity	
None under normal conditions.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
None under normal conditions.	

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10.4. Conditions to avoid No data available. **10.5. Incompatible materials** Strong oxidizers. acids. Bases.

10.6. Hazardous decomposition products None under normal conditions.

SECTION 44. Toxicological information	
SECTION 11: Toxicological information 11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified (There is dilution test data available which is applicable to the ZDDP present in the mixture. A product containing 15,4% of ZDDP was tested in an in vivo eye irritation study (OECD405). At the 24 hour observation point light redness and chemosis could be recorded, but had fully reversed at the 48h observation point. No further signs of irritation were recorded during the 7 day observation period. This test data confirms that when ZDDP is present in a mixture at <15% (w/w), the mixture does not meet the classification criteria for either Eye Dam. 1,H318; Eye Irrit. 2,H319 or Skin Irrit. 2,H315 under the CLP Regulation.)
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
HIGHWAY 10W40	
Viscosity, kinematic	90 mm²/s @ 40°C

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	This product contains one or more components that have a branched alkylphenol impurity, which is very toxic for aquatic organisms (mentioned in chapter 3). The components containing this impurity, are tested and are not toxic for aquatic organisms. This is why the data from chapter 3 concerning the alkylphenol impurity cannot be used for the classification of the product regarding the aquatic toxicity.
Acute aquatic toxicity	Not classified
Chronic aquatic toxicity	Not classified.
Phosphorodithioic acid, mixed O,O-bis(1,3-dia	methylbutyl and iso-Pr) esters, zinc salts (84605-29-8)
LC50 fish 1	4,5 mg/l Oncorhynchus mykiss
LC50 fish 2	46 mg/l Cyprinodon varietagus
EC50 Daphnia 1	23 mg/l
EC50 Daphnia 2	0,8 mg/l @21d
EC50 other aquatic organisms 2	10000 mg/l @0,1d - Chlorophyta
EC50 72h algae (1)	21 mg/l @3d - Chlorophyta
NOEC (acute)	1,8 mg/l @4d - Oncorhynchus mykiss
NOEC (chronic)	10 mg/l @2d - Daphnia
NOEC chronic fish	0,4 mg/l @21d - Daphnia
NOEC chronic algae	10 mg/l @3d - Chlorophyta

Phenol, dodecyl-, branched (121158-58-5)		
LC50 fish 1	40 mg/l Pimephales promelas	
EC50 Daphnia 1	0,037 mg/l	
EC50 Daphnia 2	0,0079 mg/l	
2/07/2010 () (aminus 1 1)		4/0

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EC50 other aquatic organisms 1	> 0,58 mg/l
EC50 other aquatic organisms 2	> mg/l
EC50 72h algae (1)	0,36 mg/l
NOEC (chronic)	0,0037 mg/l @21d - Daphnia
12.2. Persistence and degradability	
HIGHWAY 10W40	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)	
Biodegradation	1,5 % @28d - OECD TG 301 B

Phenol, dodecyl-, branched (121158-58-5)		
Biodegradation	25 % @28d - strum - OECD TG 301 B	
12.3. Bioaccumulative potential		
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)		
Log Kow	0,56 Measurements	

Phenol, dodecyl-, branched (121158-58-5)		
Bioconcentration factor (BCF REACH)	794,33	
Log Kow	7,14 Measurements	
12.4. Mobility in soil No additional information available		
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 Additional information

: Dispose in a safe manner in accordance with local/national regulations.

	SECTION 14: Transport information	
	In accordance with ADR / RID / IMDG / IATA / ADN	
	14.1. UN number	
UN-No. (ADR)		: Not applicable
		: 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
		Neterslieble
	Transport hazard class(es) (ADN)	: Not applicable

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RID			
Transport hazard class(es) (RID)	nsport 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			

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) nwg, Non-hazardous 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		
SZW-lijst van kankerverwekkende stoffen	: Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts,Phenol, dodecyl-, branched are listed	
SZW-lijst van mutagene stoffen	 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts,Phenol, dodecyl-, branched 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	: Phenol, dodecyl-, branched is listed	
15.2. Chemical safety assessment		
No chemical safety assessment has been carried out for the substance or the mixture by the supplier		

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

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SECTION 16:	Other informati	on		
Indication of changes:				
Section	Changed	item	Change	Comments
	Supersede	es	Added	
	Revision of	late	Modified	
2.1		ion according to n (EC) No. 1272/2008	Added	
3	Compositi ingredient	on/information on	Modified	
12.1	Ecology -	general	Added	
15.1	Water haz	ard class (WGK)	Added	
Abbreviations an	d acronyms:			
		ACGIH: American Con	ference of Governmental Industrial	Hygienists
		TWA: Time Weighted	Average	
		TLV: Threshold Limit V	/alue	
		ASTM: American Socie	ety for Testing and Materials	
		ADR: Accord Europée	n Relatif au Transport International	des Marchandises Dangereuses par Route
		RID: Regulations Cond	cerning the International Carriage of	Dangerous Goods by Rail
		ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voi Navigation du Rhin		des Marchandises Dangereuses par voie de
		IMDG: International Ma	aritime Dangerous Goods	
		ICAO: International Civ	vil Aviation Organization	
		IATA: International Air Transport Association		
		STEL: Short Term Exposure Limit		
		LD50: median Lethal Dose for 50% of subjects		
		ATE: acute toxicity est	imate	
		LC50: median Lethal C	Concentration for 50% of subjects	
		EC50: concentration p	roducing 50% effect	
Other information		information is provided or methods of handling our knowledge. For th for loss, damage or ex disposal of the product	I without any warranty, express or in g, storage, use or disposal of the pro- is and other reasons, we do not ass pense arising out of or in any way c	hich we believe are reliable. However, the nplied, regarding its correctness. The conditions oduct are beyond our control and may be beyond ume responsibility and expressly disclaim liabilit onnected with the handling, storage, use or to be used only for this product. If the product is

Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	

used as a component in another product, this MSDS information may not be applicable.

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H360F	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

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.