

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/4/2014 Revision date: 8/14/2019 Supersedes version of: 7/3/2018 Version: 2.3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : 72100 - WAVE POWER ADVANTAGE 20W-50

Product code : 72100
Type of product : Lubricant

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use 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

North Sea Lubricants B.V. B.V.

Ampèrestraat 5

NL- 3846AN Harderwijk

The Netherlands

T+31 651345369

support@northsealubricants.com - www.northsealubricants.com

1.4. Emergency telephone number

Emergency number : +31 (0)786527652

Monday to Friday: 09:00 - 16:00 (CET)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

Other hazards which do not result in classification : Flammable liquids. Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis. Spills of this product present a serious slipping hazard.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil substance with national workplace exposure limit(s) (BE, BG, CZ, DK, HR, NL, NO); substance with a Community workplace exposure limit	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	50 – 75	Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil substance with national workplace exposure limit(s) (BG, CZ, DK, HR, NL); substance with a Community workplace exposure limit	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	25 – 50	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic; Baseoil substance with national workplace exposure limit(s) (BE, NL)	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-	2.5 – 5	Not classified
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts substance with national workplace exposure limit(s) (DE, SK)	CAS-No.: 84605-29-8 EC-No.: 283-392-8 REACH-no: 01-2119493626- 26	0.5 – 2.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Phenol, dodecyl-, sulfurized, carbonates,calcium salts, overbased	EC-No.: 701-251-5 REACH-no: 01-2119524004- 56	0.5 – 2.5	Aquatic Chronic 4, H413

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Phosphorodithioic acid, mixed O,O-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	(15 <c 100)="" 2,="" <="" h315<br="" irrit.="" skin="">(15 <c 2,="" 20)="" eye="" h319<br="" irrit.="" ≤="">(20 <c 1,="" 100)="" <="" dam.="" eye="" h318<="" td=""></c></c></c>

Full text of H- and EUH-statements: see section 16

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 effects, both acute and delayed

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 eye 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.

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4.3. Indication of any immediate medical 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 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.

6.3. Methods and material for containment and cleaning up

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, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature : ≤ 50 °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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil (64742-65-0)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA 5 mg/m³		
IOEL STEL 10 mg/m³		
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5 mg/m³	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

No additional information available

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

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Colour · Brown Odour : characteristic. Odour threshold : Not available Melting point : Not applicable Freezing point -27 °C Boiling point Not available Flammability : Not applicable **Explosive limits** Not available Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available : > 201 °C Flash point : Not available Auto-ignition temperature : Not available Decomposition temperature рΗ Not available : 157 mm²/s @40°C Viscosity, kinematic Solubility : insoluble in water. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available Density : 890 kg/m3 @15°C : Not available Relative density Relative vapour density at 20 °C : Not available Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable : Not applicable Particle aggregation state : Not applicable Particle agglomeration state Particle specific surface area : Not applicable Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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 under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTIO	N 11: ⁻	Toxicolo	ogical	l informatio	n

11.1. Information on hazard classes as defined	d in Regulation (EC) No 1272/2008
Acute toxicity (dermal) :	Not classified Not classified Not classified
Distillates (petroleum), solvent-dewaxed heav	y paraffinic; Baseoil (64742-65-0)
LD50 oral (rat)	> 5000 mg/kg bodyweight
LD50 dermal (rabbit)	> 5000 mg/kg
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h
Distillates (petroleum), hydrotreated heavy pa	raffinic; Baseoil (64742-54-7)
LD50 oral (rat)	> 5000 mg/kg bodyweight
LD50 dermal (rabbit)	> 5000 mg/kg
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h
Distillates (petroleum), hydrotreated light para	affinic; Baseoil (64742-55-8)
LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 5000 mg/kg
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h
Phosphorodithioic acid, mixed O,O-bis(1,3-dia	methylbutyl and iso-Pr) esters, zinc salts (84605-29-8)
LD50 oral (rat)	3150 mg/kg
LD50 dermal (rat)	> 2002 mg/kg
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 2.3 mg/l/4h
Phenol, dodecyl-, sulfurized, carbonates,calci	um salts, overbased
LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 4000 µg/kg
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 0.835 mg/l/4h
	Not classified
	Not classified
Respiratory or skin sensitisation : Germ cell mutagenicity :	Not classified Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Distillates (petroleum), solvent-dewaxed heav	y paraffinic; Baseoil (64742-65-0)
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight
NOAEL (dermal, rat/rabbit, 90 days)	≈ 1000 mg/kg bodyweight
Distillates (petroleum), hydrotreated heavy pa	raffinic; Baseoil (64742-54-7)
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight
Distillates (petroleum), hydrotreated light para	affinic; Baseoil (64742-55-8)
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

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Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)		
NOAEL (oral, rat, 90 days) 160 mg/kg bodyweight		
A	N. () 20 1	

Aspiration hazard : Not classified

Viscosity, kinematic 157 mm²/s @40°C

11.2. Information on other hazards

No additional information available

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.

: Not classified

Hazardous to the aquatic environment, short-term

acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil (64742-65-0)			
LC50 - Fish [1]	> 100 mg/l Pimephales promelas		
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna		
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss		
NOEC chronic crustacea	10 mg/l Daphnia magna		
NOEC chronic algae	> 100 mg/l Pseudokirchneriella subcapitata		
Distillates (petroleum), hydrotreated heavy pa	araffinic; Baseoil (64742-54-7)		
LC50 - Fish [1]	> 100 mg/l Pimephales promelas		
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna		
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss		
NOEC chronic crustacea	10 mg/l Daphnia magna		
NOEC chronic algae	> 100 mg/l Pseudokirchneriella subcapitata		
Distillates (petroleum), hydrotreated light par	Distillates (petroleum), hydrotreated light paraffinic; Baseoil (64742-55-8)		
LC50 - Fish [1]	> 100 mg/l Pimephales promelas		
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna		
NOEC chronic fish	≥ 1000 mg/l Oncorhynchus mykiss		
NOEC chronic crustacea	10 mg/l Daphnia magna		
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata		
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)			
LC50 - Fish [1]	4.5 mg/l Oncorhynchus mykiss		
LC50 - Fish [1] EC50 - Crustacea [1]	4.5 mg/l Oncorhynchus mykiss 23 mg/l Daphnia magna		
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EC50 - Crustacea [1]	23 mg/l Daphnia magna		

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Phenol, dodecyl-, sulfurized, carbonates,calcium salts, overbased	
LC50 - Fish [1] > 1000 mg/l Pimephales promelas	
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna
EC50 96h - Algae [1]	> 500 mg/l Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil (64742-65-0)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	31 % 28 d OECD 301F	
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	31 % 28 d OECD 301F	
Distillates (petroleum), hydrotreated light paraffinic; Baseoil (64742-55-8)		
Biodegradation	31 % 28 d, OECD TG 301 F	
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	1.5 % 28 Days (OECD 301 B)	
Phenol, dodecyl-, sulfurized, carbonates,calcium salts, overbased		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	13.4 % OECD 301B 28 days	

12.3. Bioaccumulative potential

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil (64742-65-0)		
Bioconcentration factor (BCF REACH)	260	
Partition coefficient n-octanol/water (Log Pow)	9.2	
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7)		
Partition coefficient n-octanol/water (Log Kow)	> 4	
Distillates (petroleum), hydrotreated light paraffinic; Baseoil (64742-55-8)		
Partition coefficient n-octanol/water (Log Pow)	> 6	
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)		
Partition coefficient n-octanol/water (Log Pow)	0.56	
Phenol, dodecyl-, sulfurized, carbonates,calcium salts, overbased		
Partition coefficient n-octanol/water (Log Pow)	9.5	

12.4. Mobility in soil

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)		
Ecology - soil	Adsorbs into the soil.	

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Endocrine disrupting properties

No additional information available

12.7. 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

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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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

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Modified	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures after inhalation	Modified	
4.1	First-aid measures after ingestion	Modified	
4.1	First-aid measures after eye contact	Modified	
4.3	Other medical advice or treatment	Added	
5.2	Hazardous decomposition products in case of fire	Added	
5.3	Protection during firefighting	Modified	
6.1	Protective equipment	Modified	
6.1	Emergency procedures	Modified	
6.2	Environmental precautions	Modified	
6.3	Other information	Added	
6.3	Methods for cleaning up	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Hygiene measures	Added	
7.1	Precautions for safe handling	Modified	
7.2	Storage conditions	Modified	
8.2	Environmental exposure controls	Added	
8.2	Appropriate engineering controls	Added	
8.2	Eye protection	Modified	
9.1	Melting point	Added	

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Indication of changes			
Section	Changed item	Change	Comments
10.1	Reactivity	Added	
12.1	Ecology - general	Added	
13.1	Waste treatment methods	Added	

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	
EUH210	Safety data sheet available on request.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H411	Toxic to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

The classification complies with

: ATP 8

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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.