



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

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

1.1 Product identifier

Trade name : NAPA® N2311L FD 5W30 ECO
Synthetic Motor Oil

Product code : 902429

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

Use of the substance/mixture : Engine, gear & lubricating oil.

1.3 Details of the supplier of the safety data sheet

Company : Ellis Enterprises B.V., an affiliate of Valvoline Global
Operations
Wieldrechtseweg 39
3316 BG Dordrecht
Netherlands

Telephone : +31 (0)78 654 3500 (in the Netherlands), or contact your local
CSR contact person

E-mail address of person : SDS@valvolineglobal.com
responsible for the SDS

1.4 Emergency telephone number

00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number
at 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.



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according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Additional Labelling

EUH210 Safety data sheet available on request.

EUH208 Contains C14-16-18 Alkyl phenol, Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7 265-157-1 649-467-00-8 01-2119484627-25- xxxx	Asp. Tox. 1; H304	>= 2.5 - < 5
LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED	72623-87-1 276-738-4 649-483-00-5 01-2119474889-13- xxxx	Asp. Tox. 1; H304	>= 1 - < 2.5
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0 265-169-7 649-474-00-6 01-2119471299-27- xxxx	Asp. Tox. 1; H304	>= 1 - < 2.5
CATALYTIC DE WAXED HEAVY	64742-70-7	Asp. Tox. 1; H304	>= 1 - < 2.5



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

PARAFFINIC OIL (PETROLEUM)	265-174-4 649-477-00-2		
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9 265-159-2 649-469-00-9	Asp. Tox. 1; H304	>= 1 - < 2.5
Reaction products of Benzeneamine, N-phenyl- with nonene (branched)	36878-20-3 253-249-4 01-2119488911-28-xxxx	Aquatic Chronic 4; H413	>= 1 - < 2.5
DITHIOPHOSPHORIC ACID, O,O'-DIISOCTYL ESTER, ZINC SALT	28629-66-5 249-109-7 01-2119953278-28-xxxx	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 1 - < 2.5
C14-16-18 Alkyl phenol	Not Assigned 01-2119498288-19-xxxx	Skin Sens. 1B; H317 STOT RE 2; H373 (Liver)	>= 0.1 - < 0.5
Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes	252312-98-4	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.



SAFETY DATA SHEET

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NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

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If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : carbon dioxide and carbon monoxide
Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.



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according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the
application area.
Dispose of rinse water in accordance with local and national
regulations.

Advice on protection against : Normal measures for preventive fire protection.
fire and explosion

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep container tightly closed in a dry and well-ventilated
areas and containers place. Electrical installations / working materials must comply
with the technological safety standards.

Further information on : No decomposition if stored and applied as directed.
storage stability

7.3 Specific end use(s)

Specific use(s) : No data available



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NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
DITHIOPHOSPHORIC ACID, O,O'-DIISOCTYL ESTER, ZINC SALT	Sewage treatment plant	3 mg/l
	Fresh water sediment	0.21 mg/kg
	Marine sediment	0.021 mg/kg
	Soil	0.04 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection

Material : neoprene, nitrile rubber
Break through time : ≥ 240 min
Glove thickness : ≥ 0.35 mm
Directive : Equipment should conform to EN 374

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.
The suitability for a specific workplace should be discussed with the producers of the protective gloves.



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	:	No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	amber
Odour	:	oily
Odour Threshold	:	No data available
pH	:	Not applicable
Pour point	:	< -39.00 °C
Boiling point/boiling range	:	> 225.00 °C
Flash point	:	208 °C Method: Pensky-Martens closed cup
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	25 hPa Calculated Vapor Pressure
Relative vapour density	:	No data available
Relative density	:	ca. 0.852



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Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Density	:	0.8486 g/cm ³ (15.6 °C)
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	53.4 mm ² /s (40 °C)
Oxidizing properties	:	No data available

9.2 Other information

Self-ignition	:	No data available
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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.
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10.4 Conditions to avoid

Conditions to avoid	:	excessive heat
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10.5 Incompatible materials

Materials to avoid	:	Strong oxidizing agents
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SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Acute oral toxicity	: LD50 (Rat): > 15 g/kg
Acute dermal toxicity	: LD50 (Rabbit): > 5 g/kg

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 5.58 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: No mortality observed at this dose.
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: No mortality observed at this dose.

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: The toxicological data has been taken from products of similar composition.
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: The toxicological data has been taken from products of similar composition.

Distillates (petroleum), solvent-dewaxed light paraffinic:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: The toxicological data has been taken from products of similar composition.

C14-16-18 Alkyl phenol:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: No mortality observed at this dose.

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : May cause skin irritation in susceptible persons.

Remarks : May cause skin irritation and/or dermatitis.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Assessment	: Slight, transient irritation
Result	: Slight, transient irritation

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Species	: Rabbit
Result	: No skin irritation

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Assessment	: Slight, transient irritation
Result	: Slight, transient irritation

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

Result	: Slight, transient irritation
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Distillates (petroleum), solvent-dewaxed light paraffinic:

Species	: Rabbit
Result	: Slight, transient irritation

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Species	: Rabbit
Result	: Mild skin irritation
Remarks	: The toxicological data has been taken from products of similar composition.

DITHIOPHOSPHORIC ACID, O,O'-DIISOCTYL ESTER, ZINC SALT:

Result	: Skin irritation
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C14-16-18 Alkyl phenol:



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Method	:	OECD Test Guideline 431
Result	:	No skin irritation

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes:

Species	:	Rabbit
Result	:	Irritating to skin.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result : No eye irritation

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Assessment	:	No eye irritation
Result	:	No eye irritation

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Species	:	Rabbit
Result	:	No eye irritation

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Assessment	:	Slight, transient irritation
Result	:	Slight, transient irritation

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

Result	:	Slight, transient irritation
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Distillates (petroleum), solvent-dewaxed light paraffinic:

Species	:	Rabbit
Result	:	Slight, transient irritation

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Species	:	Rabbit
Result	:	Slight, transient irritation



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Remarks : The toxicological data has been taken from products of similar composition.

DITHIOPHOSPHORIC ACID, O,O'-DIISOCTYL ESTER, ZINC SALT:

Result : Corrosive

C14-16-18 Alkyl phenol:

Species : Rabbit
Result : Slight, transient irritation

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes:

Species : Rabbit
Result : Slight, transient irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Assessment : Does not cause skin sensitisation.
Remarks : Based on similar product.

Components:

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Test Type : Buehler Test
Species : Guinea pig
Assessment : Does not cause skin sensitisation.

Distillates (petroleum), solvent-dewaxed light paraffinic:

Test Type : Buehler Test
Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Remarks	:	The toxicological data has been taken from products of similar composition.

DITHIOPHOSPHORIC ACID, O,O'-DIISOCTYL ESTER, ZINC SALT:

Assessment	:	Does not cause skin sensitisation.
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C14-16-18 Alkyl phenol:

Test Type	:	Local lymph node assay
Species	:	Mouse
Assessment	:	The product is a skin sensitiser, sub-category 1B.
Method	:	OECD Test Guideline 429

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Assessment	:	The product is a skin sensitiser, sub-category 1B.
Method	:	OPPTS 870.2600

Germ cell mutagenicity

Not classified based on available information.

Components:

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Genotoxicity in vitro	:	Test Type: Ames test
		Test system: Salmonella typhimurium
		Metabolic activation: with and without metabolic activation
		Result: negative

C14-16-18 Alkyl phenol:

Genotoxicity in vitro	:	Test Type: Ames test
		Test system: Salmonella typhimurium
		Metabolic activation: with and without metabolic activation
		Result: negative



SAFETY DATA SHEET

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NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes:

Genotoxicity in vitro : Test Type: **Ames test**
Test system: **Salmonella typhimurium**
Metabolic activation: **with and without metabolic activation**
Result: **negative**

Carcinogenicity

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

Distillates (petroleum), solvent-dewaxed light paraffinic:

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Components:

C14-16-18 Alkyl phenol:

Target Organs	:	Liver
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

|| May be fatal if swallowed and enters airways.

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

|| May be fatal if swallowed and enters airways.

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

|| May be fatal if swallowed and enters airways.

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

|| May be fatal if swallowed and enters airways.

Distillates (petroleum), solvent-dewaxed light paraffinic:

|| The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Further information

Product:

Remarks : No data available



SAFETY DATA SHEET
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NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

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SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Toxicity to fish	:	LL50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Aquatic invertebrates): > 10,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EL50 (Algae, algal mat (Algae)): > 100 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 10 mg/l Species: Fish
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 10 mg/l Species: Aquatic invertebrates

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Toxicity to fish	:	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other	:	EL50 (Daphnia magna (Water flea)): > 10,000 mg/l



SAFETY DATA SHEET

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NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

aquatic invertebrates	Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOELR: >= 1,000 mg/l Exposure time: 14 d Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEL: 10 mg/l Exposure time: 21 d Species: Daphnia (water flea) Test substance: WAF Method: OECD Test Guideline 211

Ecotoxicology Assessment

Acute aquatic toxicity	: Not classified based on available information.
Chronic aquatic toxicity	: Not classified based on available information.

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Ecotoxicology Assessment

Acute aquatic toxicity	: Not classified based on available information.
Chronic aquatic toxicity	: Not classified based on available information.

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

Ecotoxicology Assessment

Acute aquatic toxicity	: Not classified based on available information.
Chronic aquatic toxicity	: Not classified based on available information.

Distillates (petroleum), solvent-dewaxed light paraffinic:

Toxicity to fish	: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

	Exposure time: 96 h
	Test Type: static test
	Test substance: WAF
	Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EL50 (<i>Daphnia magna</i> (Water flea)): > 10,000 mg/l
	Exposure time: 48 h
	Test Type: static test
	Test substance: WAF
	Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: NOEL (<i>Pseudokirchneriella subcapitata</i> (green algae)): >= 100 mg/l
	End point: Growth inhibition
	Exposure time: 72 h
	Test Type: static test
	Test substance: WAF
	Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEL: 10 mg/l
	Exposure time: 21 d
	Species: <i>Daphnia magna</i> (Water flea)
	Test Type: semi-static test
	Test substance: WAF
	Method: OECD Test Guideline 211

Ecotoxicology Assessment

Acute aquatic toxicity	: Not classified based on available information.
Chronic aquatic toxicity	: Not classified based on available information.

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Toxicity to fish	: LC50 (<i>Danio rerio</i> (zebra fish)): > 100 mg/l
	Exposure time: 96 h
	Test Type: static test
	Remarks: The toxicological data has been taken from products of similar composition.
Toxicity to daphnia and other aquatic invertebrates	: EC50 (<i>Daphnia magna</i> (Water flea)): > 100 mg/l
	Exposure time: 48 h
	Test Type: static test
	Test substance: WAF
Toxicity to algae/aquatic plants	: EC50 (<i>Pseudokirchneriella subcapitata</i> (algae)): 600 mg/l
	End point: Growth inhibition



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Exposure time: 72 h
Test Type: static test

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.
Chronic aquatic toxicity : Chronic aquatic toxicity Category 4; May cause long lasting harmful effects to aquatic life.

DITHIOPHOSPHORIC ACID, O,O'-DIISOCTYL ESTER, ZINC SALT:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.8 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 510 mg/l
Exposure time: 48 h
Toxicity to algae/aquatic plants : EC50 (Scenedesmus quadricauda (Green algae)): 410 mg/l
Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.4 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.
Chronic aquatic toxicity : Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.

C14-16-18 Alkyl phenol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: WAF
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l
End point: Growth inhibition
Exposure time: 72 h



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Test Type: **static test**
Test substance: **WAF**

Ecotoxicology Assessment

Acute aquatic toxicity : **Not classified based on available information.**
Chronic aquatic toxicity : **Not classified based on available information.**

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes:

Toxicity to fish : **LL50 (Oncorhynchus mykiss (rainbow trout)): > 94.8 mg/l**
Exposure time: **96 h**
Test Type: **semi-static test**
Test substance: **WAF**
Method: **OECD Test Guideline 203**
Remarks: **No toxicity at the limit of solubility**
The toxicological data has been taken from products of similar composition.

Toxicity to daphnia and other aquatic invertebrates : **EL50 (Daphnia magna (Water flea)): 50 mg/l**
Exposure time: **48 h**
Test Type: **static test**
Test substance: **WAF**
Method: **OECD Test Guideline 202**

Toxicity to algae/aquatic plants : **EL50 (Pseudokirchneriella subcapitata (green algae)): 14 mg/l**
End point: **Growth inhibition**
Exposure time: **72 h**
Test Type: **static test**
Test substance: **WAF**
Method: **OECD Test Guideline 201**
Remarks: **The toxicological data has been taken from products of similar composition.**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOELR: 100 mg/l**
Exposure time: **21 d**
Species: **Daphnia magna (Water flea)**
Test Type: **semi-static test**
Test substance: **WAF**
Method: **OECD Test Guideline 211**

Ecotoxicology Assessment

Acute aquatic toxicity : **Acute aquatic toxicity Category 3; Harmful to aquatic life.**



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Chronic aquatic toxicity : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 2 - 4 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Distillates (petroleum), solvent-dewaxed light paraffinic:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 31 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

C14-16-18 Alkyl phenol:

Biodegradability : Result: Readily biodegradable.
Remarks: Expert judgement

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 23 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: The toxicological data has been taken from products of similar composition.

12.3 Bioaccumulative potential

Components:

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Partition coefficient: n-octanol/water : log Pow: > 7.5

C14-16-18 Alkyl phenol:

Partition coefficient: n-octanol/water : log Pow: > 7.2

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes:

Partition coefficient: n-octanol/water : log Pow: > 5.1 (20 °C)
Method: OECD Test Guideline 107

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA_P : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA_P : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA_P : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA_P (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) : Not applicable

The components of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : Not in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

PICCS	: On the inventory, or in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

No data available

Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

SECTION 16: Other information

Full text of H-Statements

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.
H412	: Harmful to aquatic life with long lasting effects.
H413	: May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC -



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2311L FD 5W30 ECO Synthetic Motor
Oil

Version: 5.0

Revision Date: 22.06.2023

Print Date: 16/10/2023

International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Internal information : 000000098054

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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