



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

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

1.1 Product identifier

Trade name : NAPA® N2345L 5W40 PREMIUM
Synthetic Blend Motor Oil

Product code : 903206

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.



SAFETY DATA SHEET
 according to Regulation (EC) No. 1907/2006
 NAPA® N2345L 5W40 PREMIUM Synthetic
 Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

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.

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) |
|---|--|--------------------|--------------------------|
| LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED | 72623-87-1 276-738-4 649-483-00-5 01-2119474889-13-xxxx | Asp. Tox. 1; H304 | >= 60 - < 70 |
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC | 64742-54-7 265-157-1 649-467-00-8 01-2119484627-25-xxxx | Asp. Tox. 1; H304 | >= 10 - < 15 |
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 265-158-7 649-468-00-3 01-2119487077-29-xxxx | Asp. Tox. 1; H304 | >= 5 - < 10 |
| 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 |
| Phenol, dodecyl-, sulfurized, | 68784-26-9 | Aquatic Chronic 4; | >= 1 - < 2.5 |



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
 NAPA® N2345L 5W40 PREMIUM Synthetic
 Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

| | | | |
|--|--|--|--------------|
| carbonates, calcium salts, overbased | 272-234-3 01-2119524004-56-xxxx | H413 | |
| PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS | 84605-29-8 283-392-8 01-2119493626-26-xxxx | Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411 | >= 1 - < 2.5 |
| | | specific concentration limit Skin Irrit. 2; H315 >= 6.25 % Eye Dam. 1; H318 >= 12.5 % Eye Irrit. 2; H319 >= 10.0 % | |

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.
- 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.



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

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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
sulfur oxides

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.

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.



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

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Print Date: 16/10/2023

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 fire and explosion : Normal measures for preventive fire protection.

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

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

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.



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Global

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NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|--|--------------|-----------------|----------------------------|-------------------------|
| Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased | Workers | Inhalation | Long-term systemic effects | 7.05 mg/m ³ |
| | Workers | Inhalation | Acute systemic effects | 167 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 2.08 mg/kg |
| | Workers | Dermal | Acute systemic effects | 80 mg/kg |
| | Consumer use | Inhalation | Long-term systemic effects | 1.74 mg/m ³ |
| | Consumer use | Inhalation | Acute systemic effects | 0.167 mg/m ³ |
| | Consumer use | Dermal | Long-term systemic effects | 1.04 mg/kg |
| | Consumer use | Dermal | Acute systemic effects | 40 mg/kg |
| | Consumer use | Oral | Long-term systemic effects | 0.5 mg/kg |

Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value |
|--|---------------------------|-------------|
| Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased | Sewage treatment plant | 100 mg/l |
| | Marine sediment | 3480 mg/kg |
| | Fresh water sediment | 43500 mg/kg |
| | Soil | 8850 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 : \geq 240 min
Glove thickness : \geq 0.35 mm
Directive : Equipment should conform to EN 374



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according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

| | |
|--------------------------|--|
| Remarks | : 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. |
| 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 |
| Melting point/freezing point | : No data available |
| Boiling point/boiling range | : No data available |
| Flash point | : ca. 224 °C Method: Cleveland open cup |
| Evaporation rate | : No data available |



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according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

| | | |
|--|---|-----------------------------------|
| 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 | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | No data available |
| Density | : | ca. 0.857 g/cm ³ |
| Bulk density | : | No data available |
| Solubility(ies) | | |
| Water solubility | : | insoluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | < 6,400 mPa.s (-30 °C) |
| Viscosity, kinematic | : | ca. 87 mm ² /s (40 °C) |
| Oxidizing properties | : | No data available |

9.2 Other information

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.



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according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

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.

10.4 Conditions to avoid

Conditions to avoid : excessive heat

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

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:

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), HYDROTREATED HEAVY PARAFFINIC:

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



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according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

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

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:

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

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Acute inhalation toxicity : LC50 (Rat): > 2.3 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Species : Rabbit
Result : No skin irritation

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

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

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

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



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

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

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:

Species : Rabbit
Result : No skin irritation

**PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS,
ZINC SALTS:**

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:

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Species : Rabbit
Result : No eye irritation

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Assessment : No eye irritation
Result : No eye irritation

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

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

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

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

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

| | | |
|---------|---|-------------------|
| Species | : | Rabbit |
| Result | : | No eye irritation |

**PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS,
ZINC SALTS:**

| | | |
|---------|---|-----------|
| Species | : | Rabbit |
| Result | : | Corrosive |

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

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

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:

| | | |
|------------|---|------------------------------------|
| Test Type | : | Maximisation Test |
| Species | : | Guinea pig |
| Assessment | : | Does not cause skin sensitisation. |

| | | |
|------------|---|---|
| Test Type | : | Human Repeat Insult Patch Testing (HRIPT) |
| Assessment | : | Does not cause skin sensitisation. |

**PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS,
ZINC SALTS:**

| | | |
|------------|---|------------------------------------|
| 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® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

Germ cell mutagenicity

Not classified based on available information.

Components:

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:

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

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

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:

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), HYDROTREATED HEAVY PARAFFINIC:

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

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

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)**

Reproductive toxicity

Not classified based on available information.



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

|| **May be fatal if swallowed and enters airways.**

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

|| **May be fatal if swallowed and enters airways.**

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

|| **May be fatal if swallowed and enters airways.**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

|| **May be fatal if swallowed and enters airways.**

Further information

Product:

Remarks : No data available

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.



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

Components:

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 aquatic invertebrates | : | EL50 (Daphnia magna (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 (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), 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 |



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

| | | |
|--|---|--|
| 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. |

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

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. |

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): > 1.0 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: WAF Remarks: No toxicity at the limit of solubility |
| Toxicity to daphnia and other aquatic invertebrates | : | EL50 (Daphnia magna (Water flea)): > 1.0 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Remarks: No toxicity at the limit of solubility |
| Toxicity to algae/aquatic plants | : | NOELR (Pseudokirchneriella subcapitata (green algae)): End |



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according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

plants point: **Growth inhibition**
Exposure time: **96 h**
Test Type: **static test**
Test substance: **WAF**
Remarks: **No toxicity at the limit of solubility**

Ecotoxicology Assessment

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

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC: 0.4 mg/l**
End point: **Reproduction Test**
Exposure time: **28 d**
Species: **Daphnia magna (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.**

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**

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:

Biodegradability : Result: **Not readily biodegradable.**
Biodegradation: **< 10 %**
Exposure time: **28 d**
Method: **Modified Sturm Test**
Remarks: **The toxicological data has been taken from products of similar composition.**



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

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Revision Date: 27.06.2023

Print Date: 16/10/2023

**PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS,
ZINC SALTS:**

Biodegradability : Result: **Not readily biodegradable.**
Biodegradation: **1.5 %**
Exposure time: **28 d**
Method: **OECD Test Guideline 301B**

12.3 Bioaccumulative potential

Components:

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:

Partition coefficient: n-octanol/water : log Pow: **9.5**

**PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS,
ZINC SALTS:**

Partition coefficient: n-octanol/water : log Pow: **0.56**

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



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

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.
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



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

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

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 : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

| | | |
|-------|---|--|
| AIIC | : | Not in compliance with the inventory |
| DSL | : | All components of this product are on the Canadian DSL |
| ENCS | : | On the inventory, or in compliance with the inventory |
| KECI | : | On the inventory, or in compliance with the inventory |
| PICCS | : | On the inventory, or in compliance with the inventory |
| IECSC | : | On the inventory, or 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. |
| H318 | : | Causes serious eye damage. |
| H411 | : | Toxic 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 |

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;



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
NAPA® N2345L 5W40 PREMIUM Synthetic
Blend Motor Oil

Version: 13.0

Revision Date: 27.06.2023

Print Date: 16/10/2023

ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - 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 : 000000264676

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