



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N228199L PC 0W30 ECO LS Synthetic
Motor Oil

Version: 4.0

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® N228199L PC 0W30 ECO LS
Synthetic Motor Oil

Product code : 902483

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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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 Molybdenum polysulphide long chain alkyl dithiocarbamate complex, C14-16-18 Alkyl phenol. 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 | >= 60 - < 70 |
| DECENE-1 HOMOPOLYMER HYDROGENATED | 68037-01-4 500-183-1 01-2119486452-34- xxxx | Asp. Tox. 1; H304 | >= 10 - < 15 |
| Long Chain Alkaryl Amine | 36878-20-3 253-249-4 | Aquatic Chronic 4; H413 | >= 1 - < 2.5 |
| 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 |
| Molybdenum polysulphide long chain | Not Assigned | Skin Irrit. 2; H315 | >= 0.25 - < 0.5 |



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| | | | |
|-------------------------------|---|--|----------------|
| alkyl dithiocarbamate complex | 01-0000019337-66-xxxx | Skin Sens. 1B; H317 Aquatic Chronic 3; H412 | |
| C14-16-18 Alkyl phenol | Not Assigned 01-2119498288-19-xxxx | Skin Sens. 1B; H317 STOT RE 2; H373 (Liver) | >= 0.1 - < 0.5 |

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 eye contact : Remove contact lenses.
Protect unharmed eye.
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.

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.



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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

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 : Refer to protective measures listed in sections 7 and 8.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : 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.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : No materials to be especially mentioned.
- 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

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--|--------------|-------------------------------|--------------------|-----------|
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | Not Assigned | TWA | 10 mg/m3 | SUPLR EXP |

8.2 Exposure controls

Personal protective equipment

- Eye/face protection : Safety glasses



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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 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.

Skin and body protection : Protective suit

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 : clear
Odour : No data available
Odour Threshold : No data available
pH : Not applicable
Pour point : ≤ -45 °C
Boiling point/boiling range : No data available
Flash point : 230 °C



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Method: Cleveland open cup

| | | |
|--|---|---------------------------------------|
| Evaporation rate | : | No data available |
| 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. 0.845 g/cm ³ (15.6 °C) |
| 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 | : | No data available |
| Viscosity, kinematic | : | ca. 51.6 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 : Stable under recommended storage conditions.
No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : None known.

None known.

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.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

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

DECENE-1 HOMOPOLYMER HYDROGENATED:



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| | |
|---------------------------|---|
| Acute oral toxicity | : LD50 (Rat): > 5,000 mg/kg |
| Acute inhalation toxicity | : LC50 (Rat): > 5.2 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): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity |

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. |

Molybdenum polysulphide long chain alkyl dithiocarbamate complex:

| | |
|-----------------------|--|
| 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 |

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. |



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Skin corrosion/irritation

Not classified based on available information.

Product:

Result : Repeated exposure may cause skin dryness or cracking.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

| | |
|------------|--------------------------------|
| Assessment | : Slight, transient irritation |
| Result | : Slight, transient irritation |

DECENE-1 HOMOPOLYMER HYDROGENATED:

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

Long Chain Alkaryl Amine:

| | |
|--------|----------------------|
| Result | : No skin irritation |
|--------|----------------------|

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

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

Molybdenum polysulphide long chain alkyl dithiocarbamate complex:

| | |
|---------|-----------------------|
| Species | : Rabbit |
| Result | : Irritating to skin. |

C14-16-18 Alkyl phenol:

| | |
|--------|---------------------------|
| Method | : OECD Test Guideline 431 |
| Result | : No skin irritation |

Serious eye damage/eye irritation

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

| | |
|------------|---------------------|
| Assessment | : No eye irritation |
| Result | : No eye irritation |

DECENE-1 HOMOPOLYMER HYDROGENATED:



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| | | |
|---------|---|------------------------------|
| Species | : | Rabbit |
| Result | : | Slight, transient irritation |

Long Chain Alkaryl Amine:

| | | |
|--------|---|-------------------|
| Result | : | No eye irritation |
|--------|---|-------------------|

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

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

Molybdenum polysulphide long chain alkyl dithiocarbamate complex:

| | | |
|---------|---|------------------------------|
| Species | : | Rabbit |
| Result | : | Slight, transient irritation |

C14-16-18 Alkyl phenol:

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

Components:

DECENE-1 HOMOPOLYMER HYDROGENATED:

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

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

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

Molybdenum polysulphide long chain alkyl dithiocarbamate complex:



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

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 |

Germ cell mutagenicity

Not classified based on available information.

Components:

DECENE-1 HOMOPOLYMER HYDROGENATED:

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

Molybdenum polysulphide long chain alkyl dithiocarbamate complex:

| | | |
|-----------------------|---|---|
| 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 |

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) |
|------------------------------|---|---|



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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)

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.

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.

DECENE-1 HOMOPOLYMER HYDROGENATED:

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.

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : No data available



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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.

DECENE-1 HOMOPOLYMER HYDROGENATED:

| | | |
|-------------------------------|---|---|
| Toxicity to fish | : | LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: WAF |
| Toxicity to daphnia and other | : | EL50 (Daphnia magna (Water flea)): > 1,000 mg/l |



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| | |
|--|---|
| aquatic invertebrates | Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : EL50 (<i>Scenedesmus capricornutum</i> (fresh water algae)): > 1,000 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) | : NOELR: 125 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. |

Long Chain Alkaryl Amine:

Ecotoxicology Assessment

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

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

| | |
|------------------|---|
| Toxicity to fish | : LL50 (<i>Pimephales promelas</i> (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 |
|------------------|---|



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| | |
|--|--|
| 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 fish (Chronic toxicity) | : NOELR: >= 1,000 mg/l Exposure time: 14 d Species: <i>Oncorhynchus mykiss</i> (rainbow trout) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEL: 10 mg/l Exposure time: 21 d Species: <i>Daphnia</i> (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. |

Molybdenum polysulphide long chain alkyl dithiocarbamate complex:

| | |
|---|---|
| Toxicity to fish | : LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): 94.8 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : EL50 (<i>Daphnia magna</i> (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 | : NOELR (<i>Pseudokirchneriella subcapitata</i> (green algae)): 4.05 mg/l |



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| | |
|--|---|
| | 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. |
| Chronic aquatic toxicity | : Chronic aquatic toxicity Category 3; Harmful 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 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. |



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12.2 Persistence and degradability

Components:

DECENE-1 HOMOPOLYMER HYDROGENATED:

Biodegradability : Result: **Inherently biodegradable.**

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

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

Molybdenum polysulphide long chain alkyl dithiocarbamate complex:

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.**

C14-16-18 Alkyl phenol:

Biodegradability : Result: **Readily biodegradable.**
Remarks: **Expert judgement**

12.3 Bioaccumulative potential

Components:

DECENE-1 HOMOPOLYMER HYDROGENATED:

Partition coefficient: n-octanol/water : log Pow: **> 6.5**

Molybdenum polysulphide long chain alkyl dithiocarbamate complex:

Partition coefficient: n-octanol/water : log Pow: **> 5.1**
Method: **OECD Test Guideline 107**

C14-16-18 Alkyl phenol:

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



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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

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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



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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

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



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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

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

| | |
|-------|---|
| TCSI | : Not in compliance with the inventory |
| TSCA | : Product contains substance(s) not listed on TSCA inventory. |
| AIIC | : Not in compliance with the inventory |
| DSL | : This product contains the following components that are not on the Canadian DSL nor NDSL. Infineum P6092 |
| ENCS | : Not in compliance with the inventory |
| KECI | : Not in compliance with the inventory |
| PICCS | : Not 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



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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. |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| 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 |
| Skin Irrit. | : Skin irritation |
| Skin Sens. | : Skin sensitisation |
| STOT RE | : Specific target organ toxicity - repeated exposure |
| SUPLR EXP | : Supplier-recommended exposure guidelines |
| SUPLR EXP / TWA | : Time weighted average |

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 - 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-



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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 : 000000265320

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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