



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
NAPA® N336199L 80W90 LS Gear Oil

Version: 9.0

Revision Date: 12.07.2023

Print Date: 16/10/2023

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

1.1 Product identifier

Trade name : NAPA® N336199L 80W90 LS
Gear Oil

Product code : 902373

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

Use of the substance/mixture : Lubricating oils

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, 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 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl, Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.. 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) |
|--|--|-------------------------|--------------------------|
| LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED | 72623-87-1 276-738-4 649-483-00-5 01-2119474889-13-xxxx | Asp. Tox. 1; H304 | >= 5 - < 10 |
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC | 64742-54-7 265-157-1 649-467-00-8 01-2119484627-25-xxxx | Asp. Tox. 1; H304 | >= 1 - < 2.5 |
| Reaction Products of alcohols, C14-18, C18 unsat., esterified with phosphorus pentoxide and salted with amines, C12-14,-tert-alkyl | Not Assigned 01-2119978530-33-xxxx | Aquatic Chronic 3; H412 | >= 1 - < 2.5 |



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| | | | |
|---|--|---|-----------------|
| 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 |
| 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 4-methyl-2- pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl | Not Assigned 931-384-6 01-2119493620-38- xxxx | Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 2; H411 2 > 50 - 100 % specific concentration limit Skin Sens. 1 > 9.39 % | >= 1 - < 2.5 |
| Reaction product of 1,3,4- thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs. | 1471311-26-8 01-2119971727-23- xxxx | Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 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 eye contact : Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.



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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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

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 : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



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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 : Prevent product from entering drains.
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 : 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 : Containers which are opened must be carefully resealed and
kept upright to prevent leakage. 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.



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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.

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Safety glasses

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.



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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 | : < -24 °C |
| Boiling point/boiling range | : No data available |
| Flash point | : 214 °C 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. 0.889 g/cm ³ (15 °C) |
| Solubility(ies) | |
| Water solubility | : insoluble |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : No data available |



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Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : ca. 125 mm²/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.

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.

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.



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Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

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

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

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

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

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 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl:

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



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Method: OECD Test Guideline 401

Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation

Not classified based on available information.

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 |

Reaction Products of alcohols, C14-18, C18 unsat., esterified with phosphorus pentoxide and salted with amines, C12-14,-tert-alkyl:

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

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

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

Distillates (petroleum), solvent-dewaxed light paraffinic:

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

Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.:

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

Serious eye damage/eye irritation

Not classified based on available information.

Product:

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

Components:

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:



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

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

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

Reaction Products of alcohols, C14-18, C18 unsat., esterified with phosphorus pentoxide and salted with amines, C12-14,-tert-alkyl:

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

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

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

Distillates (petroleum), solvent-dewaxed light paraffinic:

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

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl:

| | | |
|--------|---|----------------|
| Result | : | Eye irritation |
|--------|---|----------------|

Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.:

| | | |
|--------|---|---------------------------------|
| Result | : | Risk of serious damage to eyes. |
|--------|---|---------------------------------|

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



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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 |

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl:

| | | |
|------------|---|--|
| Assessment | : | The product is a skin sensitiser, sub-category 1B. |
|------------|---|--|

Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.:

| | | |
|------------|---|--|
| Assessment | : | The product is a skin sensitiser, sub-category 1B. |
|------------|---|--|

Germ cell mutagenicity

Not classified based on available information.

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

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



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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.

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.

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

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



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SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity :

Toxic to aquatic life.

Chronic aquatic toxicity :

This product has no known ecotoxicological effects.

Not classified based on available information.

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 | : | NOEL: 10 mg/l Exposure time: 21 d |



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| | |
|--------------------|--|
| (Chronic toxicity) | 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 |
| 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. |

Reaction Products of alcohols, C14-18, C18 unsat., esterified with phosphorus pentoxide and salted with amines, C12-14,-tert-alkyl:

Ecotoxicology Assessment

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



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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. |

Distillates (petroleum), solvent-dewaxed light paraffinic:

| | | |
|--|---|--|
| 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 |
| 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 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl:

| | | |
|------------------|---|--|
| Toxicity to fish | : | LL50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): ca. 24 mg/l Exposure time: 96 h |
|------------------|---|--|



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| | |
|--|---|
| | Test Type: static test Test substance: WAF Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : EL50 (Daphnia magna (Water flea)): ca. 91.4 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : ErC50 (Pseudokirchneriella subcapitata (green algae)): 15 mg/l End point: Growth inhibition Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 |
| | NOEC (Pseudokirchneriella subcapitata (green algae)): 3.3 mg/l End point: Growth inhibition Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 0.12 mg/l End point: Reproduction Test 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 | : Toxic to aquatic life. |
| Chronic aquatic toxicity | : Toxic to aquatic life with long lasting effects. |

Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.:

Ecotoxicology Assessment

Acute aquatic toxicity :

| | |
|--------------------------|---|
| | Not classified based on available information. |
| Chronic aquatic toxicity | : Harmful to aquatic life with long lasting effects. |



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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**

Reaction Products of alcohols, C14-18, C18 unsat., esterified with phosphorus pentoxide and salted with amines, C12-14,-tert-alkyl:

Biodegradability : Biodegradation: **0 %**
Exposure time: **28 d**
Method: **Modified Sturm Test**

Distillates (petroleum), solvent-dewaxed light paraffinic:

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

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl:

Biodegradability : Result: **Not readily biodegradable.**
Biodegradation: **7.4 %**
Exposure time: **28 d**
Method: **Modified Sturm Test**

12.3 Bioaccumulative potential

Components:

Reaction Products of alcohols, C14-18, C18 unsat., esterified with phosphorus pentoxide and salted with amines, C12-14,-tert-alkyl:

Partition coefficient: n-octanol/water : log Pow: **8**



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Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl:

Partition coefficient: n-octanol/water : Remarks: No data available

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 : This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

Components:

Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.:

Endocrine disrupting potential : The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.



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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

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.



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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 | : Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs. |
| 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 new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

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 | : All substances listed as active on the TSCA inventory |
| AIIC | : Not in compliance with the inventory |



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

| | | |
|------|---|--|
| H226 | : | Flammable liquid and vapour. |
| H302 | : | Harmful if swallowed. |
| 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. |
| H319 | : | Causes serious eye irritation. |
| H411 | : | Toxic to aquatic life with long lasting effects. |
| H412 | : | Harmful to aquatic life with long lasting effects. |

Full text of other abbreviations

| | | |
|-----------------|---|------------------------------------|
| Acute Tox. | : | Acute toxicity |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Asp. Tox. | : | Aspiration hazard |
| Eye Dam. | : | Serious eye damage |
| Eye Irrit. | : | Eye irritation |
| Flam. Liq. | : | Flammable liquids |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitisation |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road;



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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-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 : R0517046

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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