



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
Premium Blue™ ONE SOL GEN 2 15W40 Motor
Oil

Version: 3.0

Revision Date: 18.02.2023

Print Date: 23/06/2023

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

1.1 Product identifier

Trade name : Premium Blue™ ONE SOL GEN 2 15W40
Motor Oil

Product code : 893657

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
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@valvoline.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

EUH208 Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex, C14-16-18 Alkyl phenol.

May produce an allergic reaction.

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) |
|---|--|----------------------------|--------------------------|
| Benzenepropanoic acid,3,5-bis(1,1-dimethyl-ethyl)-4,4hydroxy-C7-C9 alkyl esters | 125643-61-0 406-040-9406-040-9 607-530-00-7 | Aquatic Chronic 4; H413 | >= 2.5 - < 5 |
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 265-158-7 649-468-00-3 01-2119487077-29- xxxx | Asp. Tox. 1; H304 | >= 2.5 - < 5 |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC | 64742-65-0 265-169-7 649-474-00-6 01-2119471299-27- xxxx | Asp. Tox. 1; H304 | >= 1 - < 2.5 |
| CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM) | 64742-70-7 265-174-4 649-477-00-2 | Asp. Tox. 1; H304 | >= 1 - < 2.5 |



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| | | | |
|--|--|--|-----------------|
| 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 |
| Mineral Oil | Not Assigned 01-2119484627-25-xxxx, 01-2119471299-27-xxxx, 01-2119487077-29-xxxx, 01-2119480132-48-xxxx | Asp. Tox. 1; H304 | >= 1 - < 2.5 |
| ZINC BIS[O-(6-METHYLHEPTYL)]BIS[O-SEC-BUTYL)]BIS(DITHIOPHOSPATE) | 93819-94-4 298-577-9 01-2119543726-33-xxxx | Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411 specific concentration limit Skin Irrit. 2; H315 >= 6.25 % Eye Dam. 1; H318 >= 12.5 % Eye Irrit. 2; H319 >= 10.0 % | >= 1 - < 2.5 |
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | Not Assigned 01-0000019337-66-xxxx | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 | >= 0.1 - < 0.25 |
| 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 : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.



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- | | | |
|-------------------------|---|---|
| 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 | : | Immediately flush eye(s) with plenty of water. 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. |

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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



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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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,
acid binder, universal binder, sawdust).
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 : Do not breathe vapours/dust.
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.



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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

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 |

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|---|-----------------|----------------------------|------------|
| ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL]BIS(DITHIOPHOSPHATE) | Workers | Inhalation | Long-term systemic effects | 8.31 mg/m3 |
| | Remarks:RD TOX - Repeated dose toxicity | | | |
| | Workers | Dermal | Long-term systemic effects | 0.58 mg/kg |
| | Remarks:RD TOX - Repeated dose toxicity | | | |
| | Consumer use | Inhalation | Long-term systemic effects | 2.11 mg/m3 |
| | Remarks:RD TOX - Repeated dose toxicity | | | |
| | Consumer use | Dermal | Long-term systemic effects | 0.29 mg/kg |
| | Remarks:RD TOX - Repeated dose toxicity | | | |
| | Consumer use | Oral | Long-term systemic effects | 0.24 mg/kg |



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| | |
|----|--|
| II | Remarks: RD TOX - Repeated dose toxicity |
|----|--|

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Remarks : 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 : No data available

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. 198 °C
Method: Pensky-Martens closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available



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| | | |
|--|---|---------------------------------------|
| 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. 0.876 g/cm ³ (15.6 °C) |
| Solubility(ies) | | |
| Water solubility | : | immiscible |
| 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. 111.9 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.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions



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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
water

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

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

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

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

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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ZINC BIS[O-(6-METHYLHEPTYL)]BIS[O-SEC-BUTYL]BIS(DITHIOPHOSPHATE):

Acute oral toxicity : LD50 (Rat): 2,600 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

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.

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

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

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):



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Result : Slight, transient irritation

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

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

ZINC BIS[O-(6-METHYLHEPTYL)]BIS[O-SEC-BUTYL]BIS(DITHIOPHOSPHATE):

Species : Guinea pig
Method : OECD Test Guideline 404
Result : Irritating to skin.
Remarks : The toxicological data has been taken from products of similar composition.

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.

Product:

Remarks : May cause irreversible eye damage.

Components:

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

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

Result : Slight, transient irritation

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:



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

ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL]BIS(DITHIOPHOSPHATE):

| | | |
|---------|---|---|
| Species | : | Rabbit |
| Result | : | Corrosive |
| Remarks | : | The toxicological data has been taken from products of similar composition. |

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:

Molybdenum polysulphide long chain alkyl dithiocarbamate complex:

| | | |
|------------|---|--|
| 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:

ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL]BIS(DITHIOPHOSPHATE):



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|-----------------------|---|
| Genotoxicity in vitro | : Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: The toxicological data has been taken from products of similar composition. |
| Genotoxicity in vivo | : Test Type: Micronucleus test Species: Mouse Method: OECD Test Guideline 474 Result: negative Remarks: The toxicological data has been taken from products of similar composition. |

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:

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

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

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



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Distillates (Petroleum), Hydrotreated 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.

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

Aspiration toxicity

Not classified based on available information.

Components:

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.

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

May be fatal if swallowed and enters airways.

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

May be fatal if swallowed and enters airways.

Mineral Oil:

May be fatal if swallowed and enters airways.

Further information

Product:



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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.

Components:

Benzenepropanoic acid,3,5-bis(1,1-dimethyl-ethyl)-4,4hydroxy-C7-C9 alkyl esters:

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.

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:



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

Mineral Oil:

Ecotoxicology Assessment

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

ZINC BIS[O-(6-METHYLHEPTYL)]BIS[O-SEC-BUTYL]BIS(DITHIOPHOSPHATE):

| | | |
|---|---|---|
| Toxicity to fish | : | LL50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l Exposure time: 96 h Test Type: semi-static test |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 5.4 mg/l Exposure time: 48 h Test Type: static test |
| Toxicity to algae/aquatic plants | : | EC50 (Selenastrum capricornutum (green algae)): 2.1 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test |

Ecotoxicology Assessment

| | | |
|------------------------|---|---|
| Acute aquatic toxicity | : | Acute aquatic toxicity Category 2; Toxic to aquatic life. |
|------------------------|---|---|



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

Molybdenum polysulphide long chain alkyl dithiocarbamate complex:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 94.8 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: WAF
Method: OECD Test Guideline 203

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

Toxicity to algae/aquatic plants : NOELR (*Pseudokirchneriella subcapitata* (green algae)): 4.05 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 201
Remarks: The toxicological data has been taken from products of similar composition.

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

Ecotoxicology Assessment

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

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



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| Toxicity to daphnia and other aquatic invertebrates | : EC50 (<i>Daphnia magna</i> (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : EC50 (<i>Pseudokirchneriella subcapitata</i> (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. |

12.2 Persistence and degradability

Components:

ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL]BIS(DITHIOPHOSPHATE):

| | |
|------------------|--|
| Biodegradability | : Result: Not readily biodegradable. Biodegradation: 1.5 % 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:

ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL]BIS(DITHIOPHOSPHATE):

| | |
|--|-------------------------------|
| Partition coefficient: n-octanol/water | : log Pow: 0.59 - 1.2 (23 °C) |
|--|-------------------------------|



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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

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Other adverse effects

Product:

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

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.



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Do not re-use empty containers.

Waste Code : The Waste code should be assigned in discussion between the user and the waste disposal company.
The following Waste Codes are only suggestions:
13 02 05, mineral-based non-chlorinated engine, gear and lubricating oils

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



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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 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

Other regulations:

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

TCSI : Not in compliance with the inventory

TSCA : On or in compliance with the active portion of the TSCA inventory

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



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

15.2 Chemical safety assessment

No data available

Inventories

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

SECTION 16: Other information

Full text of H-Statements

| | |
|------|--|
| H304 | : May be fatal if swallowed and enters airways. |
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H318 | : Causes serious eye damage. |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| H411 | : Toxic to aquatic life with long lasting effects. |
| H412 | : Harmful to aquatic life with long lasting effects. |
| H413 | : May cause long lasting harmful effects to aquatic life. |

Full text of other abbreviations

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



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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 : 000000277412

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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