



Liquimatic DS

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Reference number: 21870
Issue date: 19/07/2023 Revision date: 19/07/2023 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : Liquimatic DS
Product code : 7292
Type of product : Transmission Oil
Product group : End product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Use of the substance/mixture : Lubricants and additives
Function or use category : Lubricants and additives

| Title | Life cycle stage | Use descriptors |
|---|--------------------------|--|
| General industrial use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) | Industrial, Professional | SU3, PC17, PC24, PROC1, PROC8b, ERC4, ERC7 |

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Morris Lubricants
Castle Foregate
SY1 2EL Shrewsbury – Shropshire
United Kingdom
T +44 (0) 1743 232200
sds@morris-lubricants.co.uk

1.4. Emergency telephone number

Emergency number : +44 (0) 1743 232200
08.45 - 17.00 GMT

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, H412
Category 3
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -

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| | |
|--------------------------------|---|
| Contains | : Distillates (petroleum) hydrotreated heavy paraffinic; Lubricating Oil (petroleum), C20-C50, hydrotreated neutral oil; Distillate, (petroleum) hydrotreated light paraffinic; Lubricating Oil (Petroleum) C15-30 hydrotreated neutral oil-based; Methyl-1H-benzotriazole; 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol; Distillates (petroleum), hydrotreated light paraffinic; Distillates, hydrotreated heavy paraffinic; 1,3,4-thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol; Long chain alkyl amine (dimantine); 3-((C9-11-iso, C10-rich)alkyloxy)propan-1-amine; Short-, medium- and long-chain alkyl methacrylates and short-chain alkyl methacrylamide copolymer Conf: [EU]ACC-QT664993-91 [GB]ACN-AFT-25032021-PXL-01; Long-chain and very long-chain alkenyl succinimide (Confidentiality: (EU) ACC-NN808816-16 (GB) ACN-AFT-12052021-BYH-01); Short-, medium- and long-chain alkyl methacrylates copolymer Conf: [EU]Acc-ZX665225-90; Distillates (petroleum), hydrotreated light naphthenic; 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar', ar''-Me derivs |
| Hazard statements (CLP) | : H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P273 - Avoid release to the environment. P501 - Dispose of contents and container to a hazardous or special waste collection point. |

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|------------------|---|
| Distillates (petroleum) hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (BE, BG, CZ, DK, FI, GB, GR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK, IS, NO, CH) | CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-25, UK-01-1759217276-5 | $\geq 30 - < 50$ | Not classified |
| Lubricating Oil (petroleum), C20-C50, hydrotreated neutral oil | CAS-No.: 72623-87-1 EC-No.: 276-738-4 EC Index-No.: 649-483-00-5 REACH-no: 01-2119474889-13 | $\geq 30 - < 50$ | Asp. Tox. 1, H304 |
| Lubricating Oil (Petroleum) C15-30 hydrotreated neutral oil-based | CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878-16 | $\geq 1 - < 5$ | Asp. Tox. 1, H304 |
| Distillates, hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (BE, BG, CZ, DK, FI, GB, GR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK, IS, NO, CH) | CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-25 | $\geq 1 - < 5$ | Not classified |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|-------------|---|
| Distillate,(petroleum) hydrotreated light paraffinic substance with national workplace exposure limit(s) (NO) | CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-29, UK-01-6871927170-9 | ≥ 0.1 – < 5 | Asp. Tox. 1, H304 |
| Distillates (petroleum), hydrotreated light paraffinic substance with national workplace exposure limit(s) (BE, BG, CZ, DK, FI, GB, GR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK, IS, NO, CH) | CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-29 | ≥ 0.1 – < 5 | Asp. Tox. 1, H304 |
| Short-, medium- and long-chain alkyl methacrylates and short-chain alkyl methacrylamide copolymer Conf: [EU]ACC-QT664993-91 [GB]ACN-AFT-25032021-PXL-01 | - | ≥ 1 | Eye Irrit. 2, H319 |
| Long-chain and very long-chain alkenyl succinimide (Confidentiality: (EU) ACC-NN808816-16 (GB) ACN-AFT-12052021-BYH-01) substance listed as REACH Candidate | - | ≥ 0.1 – < 5 | Aquatic Chronic 4, H413 |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | CAS-No.: 1218787-32-6 EC-No.: 620-540-6 REACH-no: 01-2119510877-33, UK-01-4235348018 | < 0.1 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |
| Long chain alkyl amine (dimantine) | CAS-No.: 124-28-7 EC-No.: 204-694-8 REACH-no: 01-2119486676-20 | < 0.1 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |
| 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine | EC-No.: 939-485-7 REACH-no: 01-2119974116-35 | < 0.1 | Acute Tox. 4 (Oral), H302 (ATE=300 mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | CAS-No.: 000095-38-5 EC-No.: 202-414-9 REACH-no: 01-2119777867-13, UK-01-9355364641 | < 0.1 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |

Comments : A petroleum product. DMSO extract < 3 % weight (IP 346)

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

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First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Distillates (petroleum) hydrotreated heavy paraffinic (64742-54-7) | |
|---|------------------------|
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 5 mg/m ³ 8H |
| Regulatory reference | EU OEL (Europe). |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 5 mg/m ³ 8H |
| Regulatory reference | EU OEL (Europe). |
| Distillates, hydrotreated heavy paraffinic (64742-54-7) | |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 5 mg/m ³ 8H |
| Regulatory reference | EU OEL (Europe). |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

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8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Colour | : red. |
| Appearance | : Liquid. |
| Odour | : mild. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : > 320 °C |
| Flammability | : Not applicable |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 180 °C PMCC |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic @ 40°C | : 29.8 mm²/s |
| Viscosity, dynamic | : 12.03 cP @ -40C |
| Solubility | : Material nearly insoluble in water. Soluble in organic solvents. |
| Partition coefficient n-octanol/water (Log Kow) | : ≈ 7 Not determined. Typical for mineral oil |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : 0.845 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Distillates (petroleum) hydrotreated heavy paraffinic (64742-54-7)

| | |
|--------------------|-------------------|
| LD50 oral rat | ≥ 5000 mg/kg mist |
| LD50 dermal rabbit | > 5000 mg/kg |

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

| | |
|-----------------------------|------------------|
| LD50 oral rat | 300 – 2000 ml/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat [ppm] | 220 ppm 1 hour |

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine

| | |
|---------------|---|
| LD50 oral rat | 300 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity), Guideline: other: |
|---------------|---|

Skin corrosion/irritation : Not classified

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (000095-38-5)

| | |
|----|----------------------------------|
| pH | 11.1 Remarks on result: 'other:' |
|----|----------------------------------|

Long chain alkyl amine (dimantine) (124-28-7)

| | |
|----|---|
| pH | 10.1 Temp.: 20 °C Concentration: 5 other: |
|----|---|

Serious eye damage/irritation : Not classified

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (000095-38-5)

| | |
|----|----------------------------------|
| pH | 11.1 Remarks on result: 'other:' |
|----|----------------------------------|

Long chain alkyl amine (dimantine) (124-28-7)

| | |
|----|---|
| pH | 10.1 Temp.: 20 °C Concentration: 5 other: |
|----|---|

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Long chain alkyl amine (dimantine) (124-28-7)

| | |
|---|--|
| NOAEL (chronic, oral, animal/male, 2 years) | 42.3 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other: |
| NOAEL (chronic, oral, animal/female, 2 years) | 52.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other: |

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Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (000095-38-5)

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | 20 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

| | |
|----------------------------|-------------------------|
| NOAEL (oral, rat, 90 days) | 12 mg/kg bodyweight/day |
|----------------------------|-------------------------|

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | ≥ 50 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents), Guideline: other:, Remarks on results: not determinable due to absence of adverse toxic effects |
|----------------------------|---|

Aspiration hazard : Not classified

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| | |
|-----------------------------|------------|
| Viscosity, kinematic @ 40°C | 29.8 mm²/s |
|-----------------------------|------------|

Distillates (petroleum) hydrotreated heavy paraffinic (64742-54-7)

| | |
|-----------------------------|----------------|
| Viscosity, kinematic @ 40°C | 360 mm²/s @40C |
|-----------------------------|----------------|

Lubricating Oil (petroleum), C20-C50, hydrotreated neutral oil (72623-87-1)

| | |
|-----------------------------|---------------|
| Viscosity, kinematic @ 40°C | 12 mm²/s @40C |
|-----------------------------|---------------|

Lubricating Oil (Petroleum) C15-30 hydrotreated neutral oil-based (72623-86-0)

| | |
|-----------------------------|----------------|
| Viscosity, kinematic @ 40°C | 7.5 mm²/s @40C |
|-----------------------------|----------------|

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.
Not rapidly degradable

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (000095-38-5)

| | |
|----------------------|--|
| EC50 - Crustacea [1] | 0.163 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 0.03 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2] | 0.0169 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

| | |
|-----------------|----------------------|
| LC50 - Fish [1] | 0.1 mg/l Danio rerio |
|-----------------|----------------------|

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2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

| | |
|------------------------|---|
| EC50 - Crustacea [1] | 0.043 mg/l Daphnia magna |
| EC50 72h - Algae [1] | 0.0538 mg/l Pseudokirchneriella subcapitata |
| NOEC chronic crustacea | 0.0107 mg/l Daphnia magna |
| NOEC chronic algae | 0.0156 mg/l Pseudokirchneriella subcapitata |

Long chain alkyl amine (dimantine) (124-28-7)

| | |
|----------------|---|
| LOEC (chronic) | 0.108 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
|----------------|---|

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine

| | |
|-----------------|--|
| LC50 - Fish [1] | 2.22 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| LC50 - Fish [2] | 2.14 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |

12.2. Persistence and degradability

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

| | |
|----------------|-------------------|
| Biodegradation | 61 – 65 % 28 days |
|----------------|-------------------|

12.3. Bioaccumulative potential

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| | |
|---|---|
| Partition coefficient n-octanol/water (Log Kow) | ≈ 7 Not determined. Typical for mineral oil |
|---|---|

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

| | |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 3.6 |
|---|-----|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-----------------------------------|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| European List of Waste (LoW) code | : 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils |
| HP Code | : HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: Long-chain and very long-chain alkenyl succinimide (Confidentiality: (EU) ACC-NN808816-16 (GB) ACN-AFT-12052021-BYH-01)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |

Liquimatic DS

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:

| | |
|---------|--|
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

Full text of H- and EUH-statements:

| | |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 4 | Hazardous to the aquatic environment – Chronic Hazard, Category 4 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very 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. |
| Skin Corr. 1 | Skin corrosion/irritation, Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |

Full text of use descriptors

| | |
|--------|--|
| ERC4 | Use of non-reactive processing aid at industrial site (no inclusion into or onto article) |
| ERC7 | Use of functional fluid at industrial site |
| PC17 | Hydraulic Fluids |
| PC24 | Lubricants, greases, release products |
| PROC1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |

Liquimatic DS

Safety Data Sheet

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Full text of use descriptors

SU3

Industrial uses: Uses of substances as such or in preparations* at industrial sites

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.