

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
 Issue date: 17-5-2018 Revision date: 18-6-2024 Supersedes version of: 6-7-2023 Version: 1.7

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

1.1. Product identifier

Product form : Mixture
 Trade name : STALHART VELUM MULTI ATF
 Product code : VELUM MULTI ATF
 Type of product : Lubricants
 Product group : Trade 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, Consumer use
 Use of the substance/mixture : Transmission oil

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Smeermiddelen-Industrie De Oliebron B.V. .
 Merwedeweg 17
 NL 3336 LG Zwijndrecht
 Netherlands
 T 7577
stalhart@utr.ua

1.4. Emergency telephone number

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|----------------|---|-----------------------------------|--|--------------------------------------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Cardiff Centre) University Hospital Llandough | Penlan Road CF64 2XX | 0344 892 0111 | Only for healthcare professionals |

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) : -
 Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

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| | |
|--------------------------------|--|
| Precautionary statements (CLP) | : P273 - Avoid release to the environment. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| EUH-statements | : EUH208 - Contains 1,2-Propanediol,3-amino-,N,N-dicocoalkyl derivates, 2-tetradecyloxirane, reaction products with boric acid. May produce an allergic reaction. |

2.3. Other hazards

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

| Component | |
|---|--|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |

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 substance(s) are 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

Comments : Highly refined mineral oils and additives.

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-----------|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (Note L) | CAS-No.: 72623-87-1 EC-No.: 276-738-4 EC Index-No.: 649-483-00-5 REACH-no: 01-2119474889-13 | ≥ 80 | Asp. Tox. 1, H304 |
| Blend of mineral oils * (*)(Note L) | - | 1 - 5 | Asp. Tox. 1, H304 |
| Distillates (petroleum), hydrotreated light paraffinic (Note L) | CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-29 | 1 - 5 | Asp. Tox. 1, H304 |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich | CAS-No.: 398141-87-2 EC-No.: 800-172-4 REACH-no: 01-2119969520-35 | 0,3 - 2,5 | Aquatic Chronic 2, H411 |
| 1,2-Propanediol,3-amino-,N,N-dicocoalkyl derivates | EC-No.: 482-000-4 REACH-no: 01-0000020142-86 | 0,1 - 1 | Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| 1-(tert-dodecylthio)propan-2-ol | CAS-No.: 67124-09-8 EC-No.: 266-582-5 REACH-no: 01-2119953277-30 | 0,1 - 1 | Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|-------|--|
| 2-tetradecyloxirane, reaction products with boric acid | EC-No.: 701-392-2 REACH-no: 01-2119976364-28 | < 0,3 | Skin Sens. 1B, H317 |
| 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 | < 0,1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | CAS-No.: 95-38-5 EC-No.: 202-414-9 REACH-no: 01-2119777867-13 | < 0,1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |

| Specific concentration limits: | | |
|--|--|--------------------------------------|
| Name | Product identifier | Specific concentration limits (%) |
| 1-(tert-dodecylthio)propan-2-ol | CAS-No.: 67124-09-8 EC-No.: 266-582-5 REACH-no: 01-2119953277-30 | (14,2 ≤ C < 100) Skin Sens. 1B, H317 |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | CAS-No.: 95-38-5 EC-No.: 202-414-9 REACH-no: 01-2119777867-13 | (10 ≤ C < 100) STOT RE 2, H373 |

*: *: contains one or more of the following CAS-numbers (REACH registration numbers):
64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30), 64741-95-3 (01-2119487081-40), 64741-96-4 (01-2119483621-38), 64741-97-5 (01-2119480374-36), 64742-01-4 (01-2119488707-21), 64742-52-5 (01-2119467170-45), 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-57-0 (01-2119489287-22), 64742-62-7 (01-2119480472-38), 64742-65-0 (01-2119471299-27), 64742-71-8 (01-2119485040-48), 72623-85-9 (01-2119555262-43), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 74869-22-0 (01-2119495601-36)

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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 general | : If you feel unwell, seek medical advice. |
| 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. |
| First-aid measures after ingestion | : Do not induce vomiting. Call a poison center or a doctor if you feel unwell. |

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

| | |
|-----------------------------------|---|
| Symptoms/effects | : No additional information available. |
| Symptoms/effects after inhalation | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |

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| | |
|-------------------------------------|---------------------------------|
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after eye contact | : None under normal conditions. |
| Symptoms/effects after ingestion | : None under normal conditions. |

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. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|---|
| Fire hazard | : Combustible liquid. |
| Explosion hazard | : No direct explosion hazard. |
| Hazardous decomposition products in case of fire | : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| 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

| | |
|------------------------------------|---|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
| 6.1.1. For non-emergency personnel | |
| Protective equipment | : Wear recommended personal protective equipment. |
| 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". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so. |

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| 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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|---|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Precautions for safe handling | : Provide good ventilation in process area to prevent formation of vapour. |
| Hygiene measures | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|---------------------|--|
| Technical measures | : Keep in a cool, well-ventilated place away from heat. |
| Storage conditions | : Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat. |
| Storage temperature | : 0 - 40 °C |
| Packaging materials | : Store always product in container of same material as original container. |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| STALHART VELUM MULTI ATF | |
|---|---|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended | 5 mg/m ³ - ACGIH TLV (inhalable fraction). |

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:
Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



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8.2.2.1. Eye and face protection

Eye protection:
Safety glasses

| Eye protection | | | |
|----------------|----------------------|-----------------|----------|
| Type | Field of application | Characteristics | Standard |
| Safety glasses | Droplet | clear | EN 166 |

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Protective gloves

| Hand protection | | | | | |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | ≥0.35 | | EN ISO 374 |

Other skin protection

Materials for protective clothing:
Wear suitable protective clothing

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. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : -48 °C - ASTM D5950 (pour point) |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Explosive properties | : Presents no particular fire or explosion hazard. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 220 °C - ASTM D92 (COC) |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : 37,6 mm ² /s (40 °C) - ASTM D7042 |
| Solubility | : Water: Insoluble / Slightly miscible |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |

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| | |
|---------------------------------|-----------------------------------|
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 0,852 kg/l (15 °C) - ASTM D4052 |
| Relative density | : Not available |
| 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

VOC content : 0 %

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

Reacts violently with (strong) oxidizers.

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

No decomposition if stored normally.

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 |

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method) |
| LD50 dermal rabbit | > 2000 mg/kg (OECD 402 method) |
| LC50 Inhalation - Rat | 5,53 mg/l/4h (OECD 403 method) |
| Blend of mineral oils * | |
| LD50 oral rat | > 5000 mg/kg Data from similar product |
| LD50 dermal rabbit | > 5000 mg/kg Data from similar product |
| LC50 Inhalation - Rat (Dust/Mist) | > 5 mg/l/4h Data from similar product |

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| | |
|--|---|
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 5,53 mg/l/4h |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich (398141-87-2) | |
| LD50 oral rat | 10 ml/kg |
| LD50 dermal rabbit | > 4000 mg/kg bodyweight |
| 1-(tert-dodecylthio)propan-2-ol (67124-09-8) | |
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: other: |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 434 (Acute Dermal Toxicity - Fixed Dose Procedure) |
| 1,2-Propanediol,3-amino-,N,N-dicocoalkyl derivates | |
| LD50 oral | > 2500 mg/kg bodyweight Animal: other:, Guideline: other: |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5) | |
| LD50 oral rat | 1265 mg/kg |
| Skin corrosion/irritation | : Not classified |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5) | |
| pH | 11,1 Remarks on result: 'other:' |
| Serious eye damage/irritation | : Not classified |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5) | |
| pH | 11,1 Remarks on result: 'other:' |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| 1-(tert-dodecylthio)propan-2-ol (67124-09-8) | |
| NOAEL (oral, rat, 90 days) | 167 mg/kg bodyweight Animal: rat, Guideline: other: |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5) | |
| 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 (digestive tract, thymus) through prolonged or repeated exposure (oral). |
| Aspiration hazard | : Not classified |

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| | |
|---|--|
| STALHART VELUM MULTI ATF | |
| Viscosity, kinematic | 37,6 mm ² /s (40 °C) - ASTM D7042 |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) | |
| Viscosity, kinematic | < 20,5 mm ² /s (40 °C) - ASTM D7042 |
| Aliphatic, alicyclic or aromatic hydrocarbon | Yes |
| Blend of mineral oils * | |
| Viscosity, kinematic | < 20,5 mm ² /s |
| Aliphatic, alicyclic or aromatic hydrocarbon | Yes |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| Viscosity, kinematic | < 20,5 mm ² /s |
| Aliphatic, alicyclic or aromatic hydrocarbon | Yes |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5) | |
| Viscosity, kinematic | 35,85 mm ² /s Temp.: '40°C' Parameter: 'm ² /sm ² /s' |

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.

| | |
|---|--|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) | |
| LC50 - Fish [1] | > 100 mg/l (Pimephales promelas, 96h) (OECD 203 method) |
| LC50 - Other aquatic organisms [1] | > 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method) |
| NOEC (acute) | ≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method) |
| Blend of mineral oils * | |
| LC50 - Fish [1] | > 100 mg/l Data from similar product |
| EC50 - Crustacea [1] | > 10000 mg/l Data from similar product |
| EC50 72h - Algae [1] | > 100 mg/l Data from similar product |
| NOEC chronic crustacea | > 10 mg/l |
| NOEC chronic algae | > 10 mg/l (Water flea (Daphnia magna), 21 d) |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| LC50 - Fish [1] | > 100 mg/l 96h |
| EC50 - Crustacea [1] | > 10000 mg/l |
| EC50 72h - Algae [1] | ≥ 100 mg/l |
| NOEC chronic crustacea | 10 mg/l 21d |

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| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich (398141-87-2) | |
|--|--|
| LC50 - Fish [1] | 2,4 mg/l |
| EC50 - Crustacea [1] | 4,6 mg/l |
| EC50 72h - Algae [1] | 63 mg/l |
| NOEC chronic algae | 0,313 mg/l |
| 1-(tert-dodecylthio)propan-2-ol (67124-09-8) | |
| LC50 - Fish [1] | 0,75 mg/l (Oncorhynchus mykiss, 96h) (OECD 203 method) |
| EC50 - Crustacea [1] | 0,58 mg/l (Daphnia magna, 48h) (OECD 202 method) |
| EC50 96h - Algae [1] | > 100 mg/l (96 h, Scenedesmus quadricauda) |
| NOEC chronic crustacea | 0,75 mg/l (21d, Daphnia magna) |
| 1,2-Propanediol,3-amino-,N,N-dicocoalkyl derivates | |
| LC50 - Fish [1] | > 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 72h - Algae [2] | 16 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 |
| EC50 - Crustacea [1] | 0,043 mg/l |
| EC50 72h - Algae [1] | 0,0538 mg/l |
| ErC50 algae | 0,0538 mg/l |
| NOEC chronic crustacea | 0,0107 mg/l |
| NOEC chronic algae | 0,0156 mg/l |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5) | |
| LC50 - Fish [1] | 0,33 mg/l |
| EC50 - Crustacea [1] | 0,163 mg/l Test organisms (species): Daphnia magna |
| ErC50 algae | 0,03 mg/l |
| NOEC chronic algae | 0,014 mg/l |
| 2-tetradecyloxirane, reaction products with boric acid | |
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Crustacea [1] | > 100 mg/l |
| EC50 72h - Algae [1] | > 100 mg/l |
| NOEC chronic crustacea | 10 mg/l (21d) |
| 12.2. Persistence and degradability | |
| STALHART VELUM MULTI ATF | |
| Persistence and degradability | Not rapidly degradable |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) | |
| Persistence and degradability | Not rapidly degradable |
| Biodegradation | 31 % (28d) (OECD 301F method) |

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| | |
|--|---|
| Blend of mineral oils * | |
| Persistence and degradability | Not rapidly degradable |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| Persistence and degradability | Not established. |
| Biodegradation | 31 % (OECD 301F method) |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich (398141-87-2) | |
| Persistence and degradability | Not rapidly degradable |
| Biodegradation | 9,6 % MITI 1 (28d) |
| 1-(tert-dodecylthio)propan-2-ol (67124-09-8) | |
| Persistence and degradability | Not rapidly degradable |
| Biodegradation | 5,9 % (Manometric respirometrics, 28d.) |
| 1,2-Propanediol,3-amino-,N,N-dicocoalkyl derivates | |
| Persistence and degradability | Not rapidly degradable |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6) | |
| Persistence and degradability | Rapidly degradable |
| Biodegradation | 63 % (28d) |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5) | |
| Persistence and degradability | Not rapidly degradable |
| 2-tetradecyloxirane, reaction products with boric acid | |
| Persistence and degradability | Not rapidly degradable |
| Biodegradation | 17,3 % |
| 12.3. Bioaccumulative potential | |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| Partition coefficient n-octanol/water (Log Pow) | > 6 |
| Bioaccumulative potential | Not established. |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich (398141-87-2) | |
| Bioconcentration factor (BCF REACH) | 1,4 (28 d) |
| Partition coefficient n-octanol/water (Log Kow) | 4,1 octanol/water coefficient (0,1 d) |
| 1-(tert-dodecylthio)propan-2-ol (67124-09-8) | |
| Partition coefficient n-octanol/water (Log Kow) | 5,7 (octanol/water, 0.1d.) |
| 2-tetradecyloxirane, reaction products with boric acid | |
| Partition coefficient n-octanol/water (Log Pow) | 9,4 at 40 °C |
| 12.4. Mobility in soil | |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) | |
| Mobility in soil | Product adsorbs onto the soil |

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12.5. Results of PBT and vPvB assessment

| Component | |
|---|--|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |

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

| | |
|--|--|
| Regional waste regulation | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Do not allow into drains or water courses. Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Additional information | : Do not re-use empty containers. |
| European List of Waste (LoW, EC 2000/532) | : 13 01 11* - synthetic hydraulic oils |
| HP Code | : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

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

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

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

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Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

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)

| EU restriction list (REACH Annex XVII) | | |
|--|---|---|
| Reference code | Applicable on | Entry title or description |
| 3(b) | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ; Blend of mineral oils * ; Distillates (petroleum), hydrotreated light paraffinic ; 1-(tert-dodecylthio)propan-2-ol ; 1,2-Propanediol,3-amino-,N,N-dicocoalkyl derivates ; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol ; 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c) | STALHART VELUM MULTI tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich ; 1-(tert-dodecylthio)propan-2-ol ; 1,2-Propanediol,3-amino-,N,N-dicocoalkyl derivates ; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol ; 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | ATF ; Thiophene, Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

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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)

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)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : 0 %

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

| Indication of changes | | | |
|-----------------------|--|----------|----------|
| Section | Changed item | Change | Comments |
| | Supersedes | Modified | |
| | Revision date | Modified | |
| | Type of product | Added | |
| 1.2 | Function or use category | Removed | |
| 2.2 | Precautionary statements (CLP) | Modified | |
| 4.1 | First-aid measures general | Added | |
| 4.2 | Symptoms/effects after skin contact | Added | |
| 4.2 | Symptoms/effects after inhalation | Added | |
| 4.2 | Symptoms/effects after ingestion | Added | |
| 4.2 | Symptoms/effects after eye contact | Added | |
| 5.2 | Explosion hazard | Added | |
| 5.2 | Hazardous decomposition products in case of fire | Modified | |
| 5.3 | Firefighting instructions | Added | |
| 6.1 | Emergency procedures | Added | |
| 6.1 | Protective equipment | Added | |
| 6.1 | General measures | Added | |
| 6.3 | For containment | Added | |

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| Indication of changes | | | |
|-----------------------|------------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| 7.1 | Additional hazards when processed | Added | |
| 7.2 | Technical measures | Added | |
| 7.2 | Packaging materials | Added | |
| 8.2 | Personal protective equipment | Added | |
| 10.3 | Possibility of hazardous reactions | Modified | |
| 13.1 | Sewage disposal recommendations | Added | |
| 13.1 | Additional information | Added | |
| 13.1 | Regional waste regulation | Added | |
| 13.1 | H code | Added | |

| 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 |

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| 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 2 | Hazardous to the aquatic environment - Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| EUH208 | Contains 1,2-Propanediol,3-amino-,N,N-dicocoalkyl derivates, 2-tetradecyloxirane, reaction products with boric acid. May produce an allergic reaction. |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| 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. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 2 | Specific target organ toxicity - Repeated exposure, Category 2 |

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.