



SAFETY DATA SHEET	Revision Date: 05.06.2018
	Print Date: 10.12.2018
	SDS Number: R0717828
Ceraphyl™ 31 emollient ™ Trademark, Ashland or its subsidiaries, registered in various countries 826779	Version: 3.0

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_BE

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

1.1 Product identifier

Trade name : Ceraphyl™ 31 emollient
™ Trademark, Ashland or its subsidiaries, registered in various countries

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

Recommended use : Cosmetics

1.3 Details of the supplier of the safety data sheet Ashland P.O. Box 8619 NL3009 AP, Rotterdam Netherlands +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person EUSMT@ashland.com	1.4 Emergency telephone number +1-800-274-5263/001-859-357-3564, or contact your local emergency telephone number at 070/245.245 Product Information +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements

 : **Prevention:**

P273

Avoid release to the environment.

Response:

P391

Collect spillage.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards
Additional advice

No information available.

SECTION 3: Composition/information on ingredients
3.2 Mixtures
Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Dodecyl lactate	6283-92-7 228-504-8 01-2120737643-52-0000	Aquatic Acute1; H400 Aquatic Chronic2; H411	>= 60,00 - < 70,00
Tetradecyl lactate	1323-03-1 215-350-1 01-2120747792-45-0000	Aquatic Acute1; H400 Aquatic Chronic2; H411	>= 25,00 - < 40,00
Dodecan-1-ol	112-53-8 203-982-0	Eye Irrit.2; H319 Aquatic Acute1; H400	>= 5,00 - < 10,00

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		Aquatic Chronic2; H411	
Hexadecyl lactate	35274-05-6 252-478-7 01-2120742263-61-0000	Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 5,00 - < 10,00
Tetradecanol	112-72-1 204-000-3 01-2119485910-33-0031	Eye Irrit.2; H319 Aquatic Chronic1; H410	>= 5,00 - < 10,00

For explanation of abbreviations see section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.
 If unconscious, place in recovery position and seek medical advice.
 If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Flush eyes with water as a precaution.
 Remove contact lenses.
 Protect unharmed eye.
 If eye irritation persists, consult a specialist.
- If swallowed : 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 : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
 stomach or intestinal upset (nausea, vomiting, diarrhea)
 irritation (nose, throat, airways)



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Headache
Dizziness

Risks :

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide
acid smoke and fumes

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.



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Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
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

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Container hazardous when empty.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
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 : 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Other data : 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

Contains no substances with occupational exposure limit values.

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Dodecyl lactate	: Fresh water Value: 0,001 mg/l
Tetradecyl lactate	: Fresh water Value: 0,001 mg/l
Hexadecyl lactate	: Fresh water Value: 0,0002 mg/l

8.2 Exposure controls

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Use eye protection according to EN 166.

Hand protection

Remarks : Neoprene gloves Nitrile rubber



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The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:
Impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective clothing complying with EN 13688.
Safety shoes complying with EN ISO 20345.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Odour : No data available

Odour Threshold : No data available

pH :
No data available

Melting point/freezing point : -20 - -6,7 °C

Boiling point/boiling range : 310 °C

Flash point : 178,9 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : not determined

Relative vapour density : No data available



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Relative density	: No data available
Density	: 0,91 - 0,92 g/cm ³ (25 °C)
Solubility(ies)	
Water solubility	: No data available
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	: No data available
Oxidizing properties	: No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : excessive heat
Heat

10.5 Incompatible materials

Materials to avoid : Acids

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 Amines
 halogens
 isocyanates
 Strong bases
 Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide

SECTION 11: Toxicological information
11.1 Information on toxicological effects

 Information on likely routes of exposure : Inhalation
 Skin contact
 Eye Contact
 Ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Components:

Dodecyl lactate

 Acute oral toxicity : LD50 (Rat): 20.000 mg/kg
 Remarks: Information given is based on data obtained from similar substances.

 Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
 Method: OECD Test Guideline 402
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.
 Remarks: Information given is based on data obtained from similar substances.

Components:

Tetradecyl lactate

 Acute oral toxicity : LD50 (Rat): > 20.000 mg/kg
 Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
 Method: OECD Test Guideline 402
 Assessment: Not classified as acutely toxic by dermal

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absorption under GHS.

Remarks: Information given is based on data obtained from similar substances.

Components:

Dodecan-1-ol

Acute oral toxicity : LD50 (Rat): 12.800 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 71 mg/l
Exposure time: 1 h
Test atmosphere: vapour
Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD50 (Guinea pig): > 8,3 g/kg

Components:

Hexadecyl lactate

Acute oral toxicity : LD50 (Rat): > 20.000 mg/kg

Components:

Tetradecanol

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Assessment: No adverse effect has been observed in acute oral toxicity tests.

Acute inhalation toxicity : LC50 (Rat): > 1,5 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): > 8.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species: Rabbit

Result: Slight, transient irritation

Components:

Dodecyl lactate

Result: No skin irritation

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Tetradecyl lactate

Species: Rabbit

Method: Draize Test

Result: No skin irritation

Dodecan-1-ol

Result: Slight, transient irritation

Hexadecyl lactate

Species: Rabbit

Method: Draize Test

Result: No skin irritation

Tetradecanol

Result: Slight, transient irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species: Rabbit

Result: Slight, transient irritation

Remarks: Unlikely to cause eye irritation or injury.

Components:

Dodecyl lactate

Species: Rabbit

Result: Slight, transient irritation

Tetradecyl lactate

Species: Rabbit

Method: Draize Test

Result: No eye irritation

Dodecan-1-ol

Result: Irritating to eyes.

Hexadecyl lactate

Species: Rabbit

Method: Draize Test

Result: No eye irritation

Tetradecanol

Result: Irritating to eyes.

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Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Product:

Assessment: Did not cause sensitisation on laboratory animals.

Components:

Dodecyl lactate

 Species: **Guinea pig**

 Assessment: **Did not cause sensitisation on laboratory animals.**

Tetradecyl lactate

 Species: **Guinea pig**

 Assessment: **Did not cause sensitisation on laboratory animals.**

 Remarks: **Information given is based on data obtained from similar substances.**

Hexadecyl lactate

 Species: **Guinea pig**

 Assessment: **Did not cause sensitisation on laboratory animals.**

Tetradecanol

 Test Type: **Maximisation Test**

 Species: **Guinea pig**

 Assessment: **Does not cause skin sensitisation.**

 Method: **OECD Test Guideline 406**
Germ cell mutagenicity

Not classified based on available information.

Components:

Dodecyl lactate

Genotoxicity in vitro

 : Test Type: **Ames test**

 Test species: **Salmonella typhimurium**

 Metabolic activation: **with and without metabolic activation**

 Method: **OECD Test Guideline 471**

 Result: **negative**

 Remarks: **Information given is based on data obtained from similar substances.**

 : Test Type: **Chromosome aberration test in vitro**

 Test species: **Chinese hamster lung cells**

 Metabolic activation: **with and without metabolic activation**

 Method: **OECD Test Guideline 473**

 Result: **negative**

 Remarks: **Information given is based on data obtained from similar substances.**

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Tetradecyl lactate

Genotoxicity in vitro

- : Test Type: **Ames test**
Test species: **Salmonella typhimurium**
Metabolic activation: **with and without metabolic activation**
Method: **OECD Test Guideline 471**
Result: **negative**
Remarks: **Information given is based on data obtained from similar substances.**
- : Test Type: **Chromosome aberration test in vitro**
Test species: **Chinese hamster lung cells**
Metabolic activation: **with and without metabolic activation**
Method: **OECD Test Guideline 473**
Result: **negative**
Remarks: **Information given is based on data obtained from similar substances.**

Hexadecyl lactate

Genotoxicity in vitro

- : Test Type: **Ames test**
Test species: **Salmonella typhimurium**
Metabolic activation: **with and without metabolic activation**
Method: **OECD Test Guideline 471**
Result: **negative**
Remarks: **Information given is based on data obtained from similar substances.**
- : Test Type: **Chromosome aberration test in vitro**
Test species: **Chinese hamster lung cells**
Metabolic activation: **with and without metabolic activation**
Method: **OECD Test Guideline 473**
Result: **negative**
Remarks: **Information given is based on data obtained from similar substances.**

Tetradecanol

Genotoxicity in vitro

- : Test Type: **Ames test**
Test species: **Salmonella typhimurium**
Metabolic activation: **with and without metabolic activation**
Result: **negative**

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.



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STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity**Components:**

Hexadecyl lactate

Species: Rat

No observed adverse effect level: 500 mg/kg

Application Route: Dermal

Exposure time: 30 d

Remarks: Systemic effects

Information given is based on data obtained from similar substances.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: No data available

SECTION 12: Ecological information**12.1 Toxicity****Components:**

Dodecyl lactate

Toxicity to fish : LC50 (Fish): 0,75 mg/l
 Exposure time: 96 h
 Remarks: The value is given based on a SAR/AAR approach
 using OECD Toolbox, DEREK, VEGA QSAR models
 (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,1 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (green algae): 0,378 mg/l
 End point: Growth inhibition
 Exposure time: 96 h
 Remarks: The value is given based on a SAR/AAR approach
 using OECD Toolbox, DEREK, VEGA QSAR models
 (CAESAR models), etc.

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NOEC (green algae): 0,091 mg/l
End point: Growth inhibition
Exposure time: 96 h
Remarks: The value is given based on a SAR/AAR approach
using OECD Toolbox, DEREK, VEGA QSAR models
(CAESAR models), etc.

M-Factor (Acute aquatic
toxicity) : 10

Toxicity to fish (Chronic
toxicity) : NOEC: > 0,01 mg/l
Species: Fish
Remarks: The value is given based on a SAR/AAR approach
using OECD Toolbox, DEREK, VEGA QSAR models
(CAESAR models), etc.

Toxicity to daphnia and other
aquatic invertebrates
(Chronic toxicity) : NOEC: 0,093 mg/l
Species: Daphnia magna (Water flea)
Remarks: The value is given based on a SAR/AAR approach
using OECD Toolbox, DEREK, VEGA QSAR models
(CAESAR models), etc.

M-Factor (Chronic aquatic
toxicity) : 1

Tetradecyl lactate

Toxicity to fish : LC50 (Fish): 0,11 mg/l
Exposure time: 96 h
Remarks: The value is given based on a SAR/AAR approach
using OECD Toolbox, DEREK, VEGA QSAR models
(CAESAR models), etc.

Toxicity to daphnia and other
aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,1 mg/l
Exposure time: 48 h
Remarks: The value is given based on a SAR/AAR approach
using OECD Toolbox, DEREK, VEGA QSAR models
(CAESAR models), etc.

Toxicity to algae : EC50 (green algae): 0,097 mg/l
Exposure time: 96 h
Remarks: The value is given based on a SAR/AAR approach
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NOEC (green algae): 0,091 mg/l

Exposure time: 96 h

Remarks: The value is given based on a SAR/AAR approach
using OECD Toolbox, DEREK, VEGA QSAR models
(CAESAR models), etc.

M-Factor (Acute aquatic
toxicity) : 10

Toxicity to fish (Chronic
toxicity) : NOEC: > 0,01 mg/l
Species: Fish

Remarks: The value is given based on a SAR/AAR approach
using OECD Toolbox, DEREK, VEGA QSAR models
(CAESAR models), etc.

Toxicity to daphnia and other
aquatic invertebrates
(Chronic toxicity) : NOEC: 0,093 mg/l
Species: Daphnia magna (Water flea)

Remarks: The value is given based on a SAR/AAR approach
using OECD Toolbox, DEREK, VEGA QSAR models
(CAESAR models), etc.

M-Factor (Chronic aquatic
toxicity) : 1

Dodecan-1-ol

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,01 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other
aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,77 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to daphnia and other
aquatic invertebrates
(Chronic toxicity) : NOEC: 0,014 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211

Hexadecyl lactate

Toxicity to fish : LC50 (Fish): 0,076 mg/l
Exposure time: 96 h
Remarks: The value is given based on a SAR/AAR approach
using OECD Toolbox, DEREK, VEGA QSAR models

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(CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea))**: 0,096 mg/l
Exposure time: 48 h
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to algae : **EC50 (green algae)**: 0,019 mg/l
End point: Growth inhibition
Exposure time: 96 h
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

M-Factor (Acute aquatic toxicity) : **10**

Toxicity to fish (Chronic toxicity) : **NOEC**: 0,002 mg/l
Species: Fish
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC**: 0,017 mg/l
Species: Daphnia magna (Water flea)
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

M-Factor (Chronic aquatic toxicity) : **1**

Toxicity to soil dwelling organisms : **LC50**: > 2.000 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207
GLP:yes

Tetradecanol

Toxicity to fish : **LC50 (Oncorhynchus mykiss (rainbow trout))**: > 1 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility

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Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 3,2 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility
Toxicity to algae	: EL50 (Pseudokirchneriella subcapitata (green algae)): > 10 mg/l End point: Growth inhibition Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0,0016 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	: 1

12.2 Persistence and degradability

Components:

Dodecyl lactate

Biodegradability	: Result: Readily biodegradable. Biodegradation: 82,2 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Information given is based on data obtained from similar substances.
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Tetradecyl lactate

Biodegradability	: Result: Readily biodegradable. Biodegradation: 82,2 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Information given is based on data obtained from similar substances.
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Dodecan-1-ol

Biodegradability	: Concentration: 2 mg/l
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Result: **Readily biodegradable.**
Biodegradation: **79 %**
Exposure time: **28 d**
Method: **OECD Test Guideline 301D**

Hexadecyl lactate

Biodegradability : Result: **Readily biodegradable.**
Biodegradation: **82,2 %**
Exposure time: **28 d**
Method: **OECD Test Guideline 301F**
Remarks: **Information given is based on data obtained from similar substances.**

Tetradecanol

Biodegradability : Test Type: **aerobic**
Result: **Readily biodegradable.**
Biodegradation: **92 %**
Exposure time: **28 d**

12.3 Bioaccumulative potential

Components:

Dodecyl lactate

Partition coefficient: n-octanol/water : log Pow: **4,73 (25 °C)**

Tetradecyl lactate

Partition coefficient: n-octanol/water : log Pow: **5,7 (25 °C)**

Dodecan-1-ol

Partition coefficient: n-octanol/water : log Pow: **5,13**

Hexadecyl lactate

Partition coefficient: n-octanol/water : log Pow: **6,7 (25 °C)**

Tetradecanol

Partition coefficient: n-octanol/water : log Pow: **6,03**

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

Components:

Dodecyl lactate

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

Tetradecyl lactate

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

Hexadecyl lactate

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life., Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
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.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

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SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number

ADN: UN3082

ADR: UN3082

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN3082

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN3082

INTERNATIONAL MARITIME DANGEROUS GOODS: UN3082

RID: UN3082

14.2 UN proper shipping name

ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAURYL ALCOHOL)

ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAURYL ALCOHOL)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Environmentally hazardous substance, liquid, n.o.s. (LAURYL ALCOHOL)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Environmentally hazardous substance, liquid, n.o.s. (LAURYL ALCOHOL)

INTERNATIONAL MARITIME DANGEROUS GOODS: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAURYL ALCOHOL)

RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAURYL ALCOHOL)

14.3 Transport hazard class(es)

ADN: 9

ADR: 9

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: 9

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 9

INTERNATIONAL MARITIME DANGEROUS GOODS: 9

RID: 9

14.4 Packing group

ADN: III

ADR: III


INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: III

INTERNATIONAL MARITIME DANGEROUS GOODS: III

RID: III

14.5 Environmental hazards

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ADN: Environmentally hazardous

ADR: Environmentally hazardous

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Environmentally hazardous

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Environmentally hazardous

INTERNATIONAL MARITIME DANGEROUS GOODS: Environmentally hazardous

RID: Environmentally hazardous

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable


Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1	ENVIRONMENTAL HAZARDS	Quantity 1 100 t	Quantity 2 200 t
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The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
AICS	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TSCA	For Cosmetic Use Only

Inventories

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

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

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Classification procedure:

H400	Very toxic to aquatic life.	Calculation method
H411	Toxic to aquatic life with long lasting effects.	Calculation method

Full text of H-Statements

H319	Causes serious eye irritation.
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.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet
 Ashland internal data including own and sponsored test reports
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
 BEI : Biological Exposure Index
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
 FG : Food grade
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
 H-statement : Hazard Statement
 IATA : International Air Transport Association.
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
 ICAO : International Civil Aviation Organization
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
 IMDG : International Maritime Code for Dangerous Goods



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ISO : International Organization for Standardization
 logPow : octanol-water partition coefficient
 LCxx : Lethal Concentration, for xx percent of test population
 LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development
 OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine
 CLP : Classification, Labelling and Packaging
 CSA : Chemical Safety Assessment
 CSR : Chemical Safety Report
 DNEL : Derived No Effect Level.
 EINECS : European Inventory of Existing Commercial Chemical Substances.
 ELINCS : European List of Notified Chemical Substances
 GV: Exposure limits (DK)
 PEC : Predicted Effect Concentration
 PEL : Permissible Exposure Limits
 PNEC : Predicted No Effect Concentration
 R-pharse : Risk phrase
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail
 S-pharse: Safety phrase
 WGK : German Water Hazard Class