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| <b>SAFETY DATA SHEET</b>  | Revision Date: 23.11.2018 |
|   | Print Date: 10.12.2018    |
|   | SDS Number: R0717875      |
| Ceraphyl™ SLK ester<br>™ Trademark, Ashland or its subsidiaries, registered<br>in various countries<br>837552 | Version: 1.3              |

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™ SLK ester  
™ Trademark, Ashland or its subsidiaries, registered in various countries

Registration number 01-2119979549-13-xxxx

Substance name Isodecyl pivalate

Substance No.

EC-No. 262-108-6

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

Recommended use : Personal care

### 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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard,  
Category 1

H410: Very toxic to aquatic life with long lasting  
effects.

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**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Warning

Hazard statements : H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
 P273  
**Response:**  
 P391  
**Disposal:**  
 P501

Avoid release to the environment.

Collect spillage.

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****3.1 Substances****Hazardous components**

| Chemical name     | CAS-No.<br>EC-No.                                | Concentration (%)    |
|-------------------|--|----------------------|
| Isodecyl pivalate | 60209-82-7<br>262-108-6<br>01-2119979549-13-xxxx | >= 90,00 - <= 100,00 |



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## 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 : The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or Section 11.

### 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



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Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

## 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.

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

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : 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.



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#### 6.4 Reference to other sections

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

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### 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.

#### 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) : Refer to the Exposure Scenarios in the Annex of this SDS

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 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.



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### 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.
- Hand protection
- Material : butyl-rubber
  - Break through time : 480 min
  - Glove thickness : > 0,5 mm
- Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
- 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.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter within the capabilities of the respirator/filter combination.  
Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.
- Respiratory protection complying with EN 136.  
Respiratory protection complying with EN 140.  
Respiratory protection complying with EN 14387.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : colourless



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|  |                           |
|--|---------------------------|
| Odour                                  | : No data available       |
| Odour Threshold                        | : No data available       |
| pH                                     | :<br>No data available    |
| Melting point/freezing point           | : -35 °C                  |
| Boiling point/boiling range            | : No data available       |
| Flash point                            | : 120 °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                        | : No data available       |
| Relative vapour density                | : No data available       |
| Relative density                       | : No data available       |
| Density                                | : 0,858 g/cm <sup>3</sup> |
| Solubility(ies)                        |                           |
| Water solubility                       | : insoluble               |
| 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       |



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## 9.2 Other information

No data available

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## 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

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

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## 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.

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

Isodecyl pivalate

Result: Slight, transient irritation

#### Serious eye damage/eye irritation

Not classified based on available information.





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**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**Components:**

Isodecyl pivalate

Result: Slight, transient irritation

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks: No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

Isodecyl pivalate

Toxicity to fish : (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 60 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : NOEC: 0,05 mg/l  
Exposure time: 21 d



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(Chronic toxicity) Species: Daphnia magna (Water flea)

M-Factor (Long-term  
(chronic) aquatic hazard) : 1

## 12.2 Persistence and degradability

### Components:

Isodecyl pivalate  
Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 35,4 %  
Exposure time: 28 d  
Remarks: Not readily biodegradable.

## 12.3 Bioaccumulative potential

### Components:

Isodecyl pivalate  
Partition coefficient: n-  
octanol/water : log Pow: 3,54

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

Not relevant

## 12.6 Other adverse effects

### Product:

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



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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.

## 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. (ISODECYL NEOPENTANOATE)

**ADR:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISODECYL NEOPENTANOATE)

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Environmentally hazardous substance, liquid, n.o.s. (ISODECYL NEOPENTANOATE)

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Environmentally hazardous substance, liquid, n.o.s. (ISODECYL NEOPENTANOATE)

**INTERNATIONAL MARITIME DANGEROUS GOODS:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISODECYL NEOPENTANOATE)

**RID:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISODECYL NEOPENTANOATE)

#### 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



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**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

**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

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

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

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

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



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pollutants

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

|    |                          | Quantity 1 | Quantity 2 |
|----|--------------------------|------------|------------|
| E1 | ENVIRONMENTAL<br>HAZARDS | 100 t      | 200 t      |

**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  | Personal care  |
| KECI  | On the inventory, or in compliance with the inventory    |
| PICCS | Not in compliance with the inventory                     |
| IECSC | On the inventory, or in compliance with the inventory    |
| TCSI  | On the inventory, or in compliance with the inventory    |
| TSCA  | On TSCA Inventory  |

**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)

|                     |                       |
|---------------------|-----------------------|
| Registration number | 01-2119979549-13-xxxx |
| Substance name      | Isodecyl pivalate     |

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has been carried out for this substance.



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## SECTION 16: Other information

### Further information

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### Classification procedure:

H410 Very toxic to aquatic life with long lasting effects.

### Full text of H-Statements

H410 Very toxic to aquatic life with long lasting effects.

### Further information

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).

Exposure scenario : [http://www.ashland.com/file\\_source/Ashland/About/Documents/R0717875\\_Annex\\_EN.pdf](http://www.ashland.com/file_source/Ashland/About/Documents/R0717875_Annex_EN.pdf)

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.



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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

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-phrase : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-phrase: Safety phrase

WGK : German Water Hazard Class

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