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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™ 424

ester

™ 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 : Personal care

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

## **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

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

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

## 2.2 Label elements

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

Hazard pictograms



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Hazard statements : H411 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

Chemical nature : organic

#### **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION (EC)	(%)
	Registration number	No 1272/2008)	
Tetradecanol	112-72-1	Eye Irrit.2; H319	>= 5,00 - <
	204-000-3	Aquatic Chronic1;	10,00
	01-2119485910-33-0031	H410	

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.

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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 : Remove contact lenses.

Protect unharmed eye.

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** : No symptoms known or expected.

#### 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

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

## 5.3 Advice for firefighters

for firefighters

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

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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.

#### **SECTION 6: Accidental release measures**

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

Personal precautions : Avoid dust formation.

Avoid breathing dust.

Material can create slippery conditions.

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 : Pick up and arrange disposal without creating dust.

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 : Avoid dust formation.

Ensure all equipment is electrically grounded and bonded

before beginning transfer operations.

The material can accumulate static charge and can therefore

cause electrical ignition of flammable atmospheres.

Container hazardous when empty.

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Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards.

Advice on protection against

fire and explosion

: Take measures to prevent the build up of electrostatic charge.

Provide appropriate exhaust ventilation at places where dust

is formed.

Hygiene measures : Avoid breathing dust.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Advice on common storage : No materials to be especially mentioned.

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.

## 8.2 Exposure controls

#### **Engineering measures**

Provide appropriate exhaust ventilation at places where dust is formed.

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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 : Safety glasses

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Hand protection

Remarks : Neoprene gloves

Skin and body protection : Wear as appropriate:

Safety shoes

Respiratory protection : No personal respiratory protective equipment normally

required.

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Appearance : solid

Odour : No data available

Odour Threshold : No data available

pH

No data available

Melting point/freezing point : 36 - 39 °C

Boiling point/boiling range : No data available

Flash point : 226,1 °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 : 1 g/cm3 (20 °C)

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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 : Keep away from heat, flame, sparks and other ignition

sources.

10.5 Incompatible materials

Materials to avoid : strong bases

Strong oxidizing agents

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## 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 : Inhalation

exposure

Skin contact Eye Contact

Eye Containgestion

## **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : LD50 (Rat): > 5.000 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: No skin irritation

# **Components:**

Tetradecanol

Result: Slight, transient irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

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#### **Product:**

Species: Rabbit

Result: No eye irritation

Remarks: Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin

and respiratory system.

#### **Components:**

Tetradecanol

Result: Irritating to eyes.

## 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:**

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:**

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.

## 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:** 

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Remarks: No data available

# **SECTION 12: Ecological information**

## 12.1 Toxicity

# **Components:**

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

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 : 1

toxicity)

# 12.2 Persistence and degradability

#### **Components:**

Tetradecanol

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Biodegradability : Test Type: aerobic

Result: Readily biodegradable.

Biodegradation: 92 % Exposure time: 28 d

## 12.3 Bioaccumulative potential

#### **Components:**

Tetradecanol

Partition coefficient: n-

octanol/water

: log Pow: 6,03

## 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., 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.

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.

# **SECTION 14: Transport information**

# **SECTION 14: Transport information**

#### 14.1 UN number

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**ADN:** UN3077 **ADR:** UN3077

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN3077 INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN3077

INTERNATIONAL MARITIME DANGEROUS GOODS: UN3077

**RID:** UN3077

#### 14.2 UN proper shipping name

**ADN:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MYRISTYL ALCOHOL) **ADR:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MYRISTYL ALCOHOL) **INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Environmentally hazardous substance, solid, n.o.s. (MYRISTYL ALCOHOL)

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

INTERNATIONAL MARITIME DANGEROUS GOODS: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, SOLID, N.O.S. (MYRISTYL ALCOHOL)

RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MYRISTYL 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: |||
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: |||

INTERNATIONAL MARITIME DANGEROUS GOODS: |||

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

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INTERNATIONAL MARITIME DANGEROUS GOODS: Environmentally hazardous, MARINE

**POLLUTANT** 

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 : Not applicable

deplete the ozone layer

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

pollutants

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

REACH - Restrictions on the manufacture, placing on : Not applicable

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High : Not applicable

Concern for Authorisation (Article 59).

Regulation (EC) No 649/2012 of the European : Not applicable

Parliament and the Council concerning the export and

import of dangerous chemicals

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

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E2 ENVIRONMENTAL 200 t 500 t

HAZARDS

## 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

PICCS Not in compliance with the inventory

KECI On the inventory, or in compliance with the inventory

IECSC 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)

## 15.2 Chemical safety assessment

No data available

#### **SECTION 16: Other information**

#### **Further information**

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# Classification procedure:

H411 Toxic to aquatic life with long lasting Calculation method

effects.

#### **Full text of H-Statements**

H319 Causes serious eye irritation.

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

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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

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

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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