Ashland always solving	Page: 1
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional	Version: 2.1
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
832364	

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

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

1.1 Product identifier

Trade name : Vital et™

biofunctional

™ Trademark, Ashland or its subsidiaries, registered in

various countries

1.2 Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Personal care

1.3 Details of the supplier of the safety data	1.4 Emergency telephone number
sheet	00-800-274-5263-3/001-859-357-3564, or contact
Ashland	your local emergency telephone number at 111 -
P.O. Box 8619	ENG, SCO, CYM and 0808 808 8000 - NIE (Mo -
NL3009 AP, Rotterdam	Fr, 08.00 - 18.00)
Netherlands	
+31 10 497 5000 (in the Netherlands), or	
contact your local CSR contact person	Product Information +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)

Ashland always solving	Page: 2
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832364	Version: 2.1

Hazard pictograms :



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

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION (EC)	(%)
	Registration number	No 1272/2008)	
Vital ET	648891-82-1	Aquatic Chronic2;	>= 40 - < 50
	01-0000018895-55-0000	H411	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

**Ashland always solving	Page: 3
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional	Version: 2.1
™ Trademark, Ashland or its subsidiaries, registered	
in various countries 832364	
032304	

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 : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

Wash contaminated clothing before re-use.

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 : 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

Oam

Carbon dioxide (CO2)

Dry chemical

**Ashland always solving	Page: 4
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832364	Version: 2.1

Unsuitable extinguishing

media

: High volume water jet

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.

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 : Use personal protective equipment.

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 : Keep in suitable, closed containers for disposal.

**Ashland always solving	Page: 5
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832364	Version: 2.1

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 : Do not breathe vapours/dust.

Do not smoke.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Container hazardous when empty.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

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. Electrical installations / working materials must comply with the

technological safety standards.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

**Ashland always solving	Page: 6
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional	Version: 2.1
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
832364	

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.

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

Remarks : Neoprene gloves

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. Discard gloves that show tears, pinholes, or signs of wear.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : emulsion

Colour : tan, brown

Odour : Odorless

**Ashland always solving	Page: 7
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832364	Version: 2.1

Odour Threshold : No data available

pH : 5,0 - 7,0

Melting point/freezing point : 218,5 °C

Boiling point/boiling range : 250 °C

Flash point : Not applicable

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)

Solubility(ies)

Water solubility : < 0,00001 g/l (20 °C)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Ashland always solving	Page: 8
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional	Version: 2.1
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
832364	

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

10.5 Incompatible materials

10.6 Hazardous decomposition products

Hazardous decomposition

products

: No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Inhalation

exposure

: Inhalation Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

ß-Alanine,N-(2-carboxyethyl)-N-dodecyl-, disodium salt, compd. with 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecy:

Acute oral toxicity : LD 50 (Rat): > 2.000 mg/kg

Ashland always solving	Page: 9
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional	Version: 2.1
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
832364	

Acute dermal toxicity : LD 50 (Rabbit): > 2.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:

ß-Alanine,N-(2-carboxyethyl)-N-dodecyl-, disodium salt, compd. with 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecy:

Result: Not irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

ß-Alanine,N-(2-carboxyethyl)-N-dodecyl-, disodium salt, compd. with 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecy:

Result: Not irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Product:

Remarks: May cause allergic skin reaction.

Components:

ß-Alanine,N-(2-carboxyethyl)-N-dodecyl-, disodium salt, compd. with 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecy:

Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

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SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional	Version: 2.1
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
832364	

ß-Alanine,N-(2-carboxyethyl)-N-dodecyl-, disodium salt, compd. with 3, 4-dihydro-2, 5, 7, 8tetramethyl-2-(4, 8, 12-trimethyltridecy:

: Test Type: Ames test Genotoxicity in vitro

Result: negative

: Test Type: Chromosome aberration test in vitro

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:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): > 11 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC 50 (Water flea (Daphnia magna)): > 4,5 mg/l

Exposure time: 48 h

: ErC50 (Green algae): 4,7 mg/l Toxicity to algae

End point: Growth inhibition

Exposure time: 72 h

**Ashland always solving	Page: 11
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832364	Version: 2.1

Analytical monitoring: yes

NOEC (Green algae): 0,49 mg/l End point: Growth inhibition Exposure time: 72 h Analytical monitoring: yes

Components:

Vital ET

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): > 11,0 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia)): > 4,5 mg/l

Exposure time: 48 h

Toxicity to algae : EC 50 (Green algae): 1,9 mg/l

End point: Biomass Exposure time: 72 h

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.

Components:

Vital ET

Biodegradability : Remarks: Not readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: The bioaccumulation potential cannot be

determined.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

**Ashland always solving	Page: 12
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional	Version: 2.1
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
832364	

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.

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.

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. (DISODIUM

LAURIMINODIPROPIONATE TOCOPHERYL PHOSPHATES)

ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISODIUM

LAURIMINODIPROPIONATE TOCOPHERYL PHOSPHATES)

Ashland always solving	Page: 13
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional	Version: 2.1
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
832364	

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Environmentally hazardous substance, liquid, n.o.s. (DISODIUM LAURIMINODIPROPIONATE TOCOPHERYL PHOSPHATES)
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Environmentally hazardous substance, liquid, n.o.s. (DISODIUM LAURIMINODIPROPIONATE TOCOPHERYL PHOSPHATES)
INTERNATIONAL MARITIME DANGEROUS GOODS: ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (DISODIUM LAURIMINODIPROPIONATE TOCOPHERYL PHOSPHATES)
RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISODIUM LAURIMINODIPROPIONATE TOCOPHERYL PHOSPHATES)

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: Not applicable **ADR:** Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

RID: Not applicable

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

PAshland™ always solving	Page: 14
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832364	Version: 2.1

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 : Not applicable

Concern for Authorisation (Article 57).

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)

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

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.

E2 ENVIRONMENTAL 200 t 500 t

HAZARDS

The components of this product are reported in the following inventories:

TSCA : Exempt

DSL This product contains the following components that are not

on the Canadian DSL nor NDSL.

AICS Not in compliance with the inventory

ENCS Personal care

KECI Personal care

PICCS Not in compliance with the inventory

**Ashland always solving	Page: 15
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional	Version: 2.1
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
832364	

IECSC Not in compliance with the inventory

Inventories

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

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Further information

Revision Date: 07.11.2016

Full text of H-Statements referred to under sections 2 and 3.

H411 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).

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).

**Ashland always solving	Page: 16
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832364	Version: 2.1

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

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

**Ashland always solving	Page: 17
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 17.12.2018
	SDS Number: R0717610
Vital et™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832364	Version: 2.1

S-phrase: Safety phrase WGK: German Water Hazard Class