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1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : collapeptyl™ biofunctional

Description : biofunctional

™ Trademark, Ashland or its subsidiaries, registered in

various countries

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

Recommended use : biofunctional

Cosmetics Personal care

Details of the supplier of the safety data	Emergency telephone
sheet	1-800-ASHLAND (1-800-274-5263)
Ashland	
P.O. Box 2219	Product Information
Columbus, OH 43216	1-614-790-3333 (USA)
United States of America (USA)	
1-614-790-3333 (USA)	
EHSProductSafety@ashland.com	

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Other hazards which do not result in classification

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,2-PENTANEDIOL	5343-92-0	>= 3 -< 5
levulinic acid	123-76-2	>= 0,5 -< 1

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4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and plenty of water.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: None known.

Notes to physician : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Specific hazards during fire

fighting

: No information available.

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Nitrogen oxides (NOx)

Aldehydes

Specific extinguishing

methods

: Standard procedure for chemical fires.

Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment

for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions

Do not allow uncontrolled discharge of product into the

environment.

Methods and materials for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Further information on storage conditions

: Keep container tightly closed in a dry and well-ventilated

place.

Store at room temperature in the original container.

Keep in a dry, cool place. Keep away from direct sunlight.

Materials to avoid : No materials to be especially mentioned.

Further information on storage stability

: No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

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

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apparent adverse effects.

Personal protective equipment

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.

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.

Eye protection : Safety glasses

Skin and body protection : Work uniform or laboratory coat.

Hygiene measures : General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : gel

Color : No data available

Odor : No information available.

Odor Threshold : No data available

pH : 4,5 - 5,5

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Flash point : $> 400 \, ^{\circ}\text{F}$

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Evaporation rate : not determined

Flammability (solid, gas) : not determined

Flammability (liquids) : not determined

Self-ignition : not determined

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower

flammability limit

not determined

Vapor pressure : not determined

Relative vapor density : not determined

Relative density : No data available

Density : not determined

Solubility(ies)

Water solubility : not determined

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

not determined

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Oxidizing properties : Not applicable

Molecular weight : No data available

Particle size : Not applicable

10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

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Chemical stability : Stable under normal conditions.

Possibility of hazardous : No hazards to be specially mentioned.

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : Protect from frost, heat and sunlight.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: Carbon monoxide Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

Routes of exposure :

Inhalation Eye contact Skin contact Ingestion

Acute toxicity

Not classified due to lack of data.

Product:

Acute dermal toxicity : Acute toxicity estimate: > 5.000 mg/kg

Method: Calculation method

Components:

1,2-PENTANEDIOL:

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

Acute inhalation toxicity : LC50 (Rat): > 7.015 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

levulinic acid:

Acute oral toxicity : LD50 (Rat, female): > 300 - < 2.000 mg/kg

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Method: OECD Test Guideline 402

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Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Method : OECD Test Guideline 439

Result : No skin irritation

Components:

1,2-PENTANEDIOL:

Result : Slight, transient irritation

levulinic acid:

Method : OECD Test Guideline 439

Result : No skin irritation

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

Result : No eye irritation Method : EpiOcular

Components:

1,2-PENTANEDIOL:

Result : Corrosive

levulinic acid:

Result : Corrosive

Method : OECD Test Guideline 437

Respiratory or skin sensitization

Skin sensitization

Based on available data, the classification criteria are not met.

Respiratory sensitization

Not classified due to lack of data.

Product:

Species : Humans

Method : Human repeat insult patch test (HRIPT)

Result : Not a skin sensitizer.

Remarks : Expert judgment

Test Type : KeratinoSens assay

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OECD Test Guideline 442D

: Not a skin sensitizer.

: Human Cell Line Activation Test (h-CLAT)

: OECD Test Guideline 442E

: Not a skin sensitizer.

Components:

1,2-PENTANEDIOL:

Assessment : Did not cause sensitization on laboratory animals. Result : Did not cause sensitization on laboratory animals.

levulinic acid:

Method : OECD Test Guideline 442B

Result : May cause sensitization by skin contact.

Remarks : May cause allergic skin reaction.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

1,2-PENTANEDIOL:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

Remarks : No data available

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50: > 1.000 mg/l Exposure time: 96 h

Method: OECD Test Guideline 249

Components:

1,2-PENTANEDIOL:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1.096 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae/aquatic

plants

: EC50 (green algae): 9.335 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

levulinic acid:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 96 h Test Type: static test Method: QSAR

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3.038,622 mg/l

Exposure time: 48 h Test Type: static test Method: QSAR

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (microalgae)): 375,014

mg/l

Exposure time: 72 h Test Type: static test Method: QSAR

Persistence and degradability

Components:

1,2-PENTANEDIOL:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 73 %

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Exposure time: 28 d

Method: OECD Test Guideline 301E

Remarks: The 10 day time window criterion is not fulfilled.

levulinic acid:

Biodegradability : aerobic

Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: > 60 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Bioaccumulative potential

Components:

1,2-PENTANEDIOL:

Partition coefficient: n-

octanol/water

log Pow: 0,06 (25 °C)

levulinic acid:

Partition coefficient: n-

: log Pow: -0,497 (20 °C)

octanol/water

Method: OECD Test Guideline 107

Mobility in soilNo data available

Other adverse effects

Product:

Additional ecological

information

: No data available

Components:

1,2-PENTANEDIOL:

Results of PBT and vPvB

assessment

Substance is not persistent, bioaccumulative, and toxic (PBT).

Substance is not very persistent and very bioaccumulative

(vPvB).

13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

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14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

UN_DG

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

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.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Law on Chemicals No. 06/2007/QH12

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

TCSI : Not in compliance with the inventory

TSCA : For Cosmetic Use Only

AIIC : Not in compliance with the inventory

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DSL This product contains components that are not on the

Canadian DSL nor NDSL.

ENCS Not in compliance with the inventory

ISHL Not in compliance with the inventory

KECI Not in compliance with the inventory

PICCS Not in compliance with the inventory

IECSC Low volume exemption, On the inventory, or in compliance

with the inventory

16. OTHER INFORMATION

Further information

Other information This sds has been prepared by Ashland.

(http://www.ashland.com)

Sources of key data used to compile the Material Safety

Data Sheet

Ashland internal data including own and sponsored test

reports

European Union Law with content from the Official Journal of

the European Union.

European Chemicals Agency; the EU authority implementing

the EU's chemicals legislation for companies.

The German Water Hazard Classes.

ReachCentrum; a series of support services to help comply

with REACH regulations.

The European Commission; proposing legislation,

administering and implementing EU policies, and enforcing

EU law.

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

Cefic, the European Chemical Industry Council.

ESIS European Chemical Substances Information System

Date format yyyy/mm/dd

Full text of H-Statements

H302 Harmful if swallowed.

H313 May be harmful in contact with skin. May cause an allergic skin reaction. H317 Causes serious eye damage. H318

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Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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