according to Regulation (EC) No.	DSM	
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SECTION 1: Identification of	the substance/mixture and o	of the company/undertaking
1.1 Product identifier		
Trade name	: DL-alpha-Tocopheryl Aceta	te
REACH Registration Number Substance name	: 3,4-Dihydro-2,5,7,8-tetrame 2H-1-benzopyran-6-ol aceta	ethyl-2-(4,8,12-trimethyltridecyl)- ate
CAS-No.	: 7695-91-2	
1.2 Relevant identified uses of t	he substance or mixture and u	ses advised against
Use of the Sub- stance/Mixture		, Ingredient for capsules and/or naceutical products, Ingredient for
1.3 Details of the supplier of the	e safety data sheet	
Company	<ul> <li>DSM Nutritional Products (I Heanor Gate αGB061EI0017 Delves Road GB-DE75 7SG Heanor</li> </ul>	JK) Ltd.
Telephone Telefax E-mail address of person responsible for the SDS	: +441773536500 : +441773536600 : sds.nutritionalproducts@ds	m.com
1.4 Emergency telephone numb	er	

+441773536623 / +41628662314

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture.

# 2.2 Label elements

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

Not a hazardous substance or mixture.

#### 2.3 Other hazards

None known.

# **SECTION 3: Composition/information on ingredients**

Brief description of the prod-	: Substance
uct Molecular formula	: C31 H52 O3
Outerteness	

#### 3.1 Substances

Hazardous components	
Remarks	: No hazardous ingredients

#### **Further ingredients**

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Chemical name	CAS-No.	GHS Classification	Concentration
	EC-No.		[%]
	Registration number		
3,4-dihydro-2,5,7,8-tetramethyl-2-	7695-91-2		>= 96 - <= 100
(4,8,12-trimethyltridecyl)-2H-	231-710-0		
benzopyran-6-yl acetate (dl-α-	01-2119457641-38		
tocopheryl acetate)			

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General advice	: No hazards which require special first aid measures.
If inhaled	: Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
In case of eye contact	<ul> <li>Flush eyes with water as a precaution.</li> <li>Remove contact lenses.</li> <li>Protect unharmed eye.</li> <li>Keep eye wide open while rinsing.</li> </ul>
If swallowed	<ul> <li>Clean mouth with water and drink afterwards plenty of water.</li> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: No specific symptoms kno	wn.
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# 4.3 Indication of any immediate medical attention and special treatment needed

Treatment
-----------

: Treat symptomatically.

# **SECTION 5: Firefighting measures**

<b>5.1 Extinguishing media</b> Suitable extinguishing media	<ul> <li>Alcohol-resistant foam</li> <li>Dry chemical</li> <li>Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.</li> </ul>
Unsuitable extinguishing media	: High volume water jet
5.2 Special hazards arising from Specific hazards during fire- fighting	
<b>5.3 Advice for firefighters</b> Special protective equipment for firefighters Further information	<ul><li>In the event of fire, wear self-contained breathing apparatus.</li><li>Standard procedure for chemical fires.</li></ul>

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

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

Use personal protective equipment.

#### 6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.

#### 6.3 Methods and material for containment and cleaning up

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

#### 6.4 Reference to other sections

For personal protection see section 8. For disposal considerations see section 13.

#### **SECTION 7: Handling and storage**

7.1	Precautions for safe handling Advice on safe handling	:	For personal protection see section 8.
	Advice on protection against fire and explosion	:	Take necessary action to avoid static electricity discharge. Product will burn under fire conditions.
	Hygiene measures	:	General industrial hygiene practice.
7.2	Conditions for safe storage, in Requirements for storage areas and containers		<b>uding any incompatibilities</b> To maintain product quality, do not store in heat or direct sun- light.
			Keep container tightly closed and dry.
	Advice on common storage	:	No special restrictions on storage with other products.
7.3	Specific end use(s)		

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Specific use(s) : Not applicable
```

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

Personal protective equipn	nent
Eye protection	: Safety glasses
Hand protection	: Glove material: for example nitrile rubber
Skin and body protection	: Lightweight protective clothing
Respiratory protection	: Breathing apparatus needed only when aerosol or mist is formed.

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No personal respiratory protective equipment normally required.

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

## 9.1 Information on basic physical and chemical properties

Appearance	:	viscous liquid
Colour	:	colourless - yellow
Odour	:	odourless
Odour Threshold	:	No information available.
рН	:	No data available
Melting point/range	:	-27.5 °C
Boiling point/boiling	range :	267 °C (3.2 hPa)
		184 °C (0.01 hPa)
		> 300 °C (1,013 hPa) with decomposition
Flash point	:	243 - 266 °C (DIN 51758)
Evaporation rate	:	not determined
Lower explosion lim	it :	not determined
Upper explosion lim	it :	not determined
Vapour pressure	:	< 0.001 hPa (20 °C)
		ca. 1.4 hPa (240 °C)
Relative vapour der	nsity :	not determined
Density		ca. 0.98 g/cm3 (20 °C)
Water solubility		< 0.8 mg/l (20 °C; OECD Test Guideline 105) practically insoluble
Solubility in other so	olvents :	Acetone: easily soluble
		Chloroform: easily soluble
		Diethylether: easily soluble
		Alcohol: soluble
Partition coefficient: octanol/water	n- :	log Pow 12.2 (calculated (citation from literature))
Auto-ignition tempe	rature :	not pyrophoric
Ignition temperature	e :	320 °C ( 985 - 1,004 hPa, DIN 51794)
Thermal decomposition	ition :	Not relevant
Viscosity, dynamic	:	ca. 6,589 mPa.s (20 °C)
Viscosity, kinematic	: :	5076 mm2/s ( 20 °C)
Explosive properties	S :	Not explosive
Oxidizing properties	s :	No data available
9.2 Other information		
Molecular weight	:	472.73 g/mol

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## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No hazards to be specially mentioned.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

#### 10.4 Conditions to avoid

Heat

#### 10.5 Incompatible materials

Bases Strong acids Oxidizing agents

Iron salts Silver salts Powdered metal salts

#### **10.6 Hazardous decomposition products**

No decomposition if used as directed.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute oral toxicity	<ul> <li>LD50 (Rat): &gt; 10,000 mg/kg (OECD Test Guideline 401)</li> <li>LD50 (Mouse): &gt; 4,000 mg/kg (OECD Test Guideline 401)</li> </ul>
Acute dermal toxicity	: LD50 (Rat): > 3,000 mg/kg
Skin irritation	: No skin irritation (Rabbit, OECD Test Guideline 404)
	: no phototoxic skin reaction (Guinea pig)
Eye irritation	: No eye irritation (Rabbit, OECD Test Guideline 405)
Sensitisation	: Does not cause skin sensitisation. (human)
	: no photoallergenic skin reaction (Guinea pig)
Genotoxicity in vitro	: negative (Ames test, OECD Test Guideline 471)
	: not genotoxic (In vitro cytogenicity study in mammalian cells, OECD Test Guideline 473)

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Genotoxicity in vivo	: not genotoxic (In vivo micron Guideline 474)	ucleus test, Mouse, OECD Test
Carcinogenicity	: (Rat , OECD Test Guideline Animal testing did not show a	
Reproductive toxicity	: No toxicity to reproduction (Rat, OECD Test Guideline	415)
Teratogenicity	: not teratogenic	(Rat, OECD Test Guideline 414) (Rabbit, OECD Test Guideline
STOT - single exposure (A- cute exposure)	: The substance or mixture is r organ toxicant, single exposu	
STOT - repeated exposure	<ul> <li>NOAEL (Oral, Rat) : 2000 m Subacute toxicity study (28 da (OECD Test Guideline 407)</li> <li>NOAEL (Oral, Rat) : 500 mg Sub-chronic toxicity study (90 (OECD Test Guideline 408)</li> </ul>	ays) g/kg bw/d
Further information	: The product passes into and	partly through the skin of pigs.
Aspiration toxicity	: No aspiration toxicity classific	cation

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish	<ul> <li>Oncorhynchus mykiss (rainbow trout) LC50 (96 h) &gt; 100 mg/l (nominal concentration) (OECD Test Guideline 203)</li> </ul>
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>Daphnia magna (Water flea)</li> <li>EC50 (48 h) &gt; 100 mg/l</li> <li>(nominal concentration)</li> <li>(OECD Test Guideline 202)</li> </ul>
Toxicity to algae	<ul> <li>Pseudokirchneriella subcapitata (microalgae) EC50 (72 h) &gt; 100 mg/l (nominal concentration) (OECD Test Guideline 201)</li> </ul>
Toxicity to bacteria	: Pseudomonas putida EC10 (0.5 h) > 10,000 mg/l (nominal concentration)

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	: activated sludge EC20 (0.5 h) > 927 mg/l		
Toxicity to fish (Chronic toxi- city)	: Oncorhynchus mykiss (rainbow tro NOEC (28 d) 100 mg/l (nominal concentration) (OECD Test Guideline 215)	out)	
12.2 Persistence and degradabil	lity		
Biodegradability	: Not readily biodegradable. 17 % (28 d) (OECD Test Guideline 301F)		
12.3 Bioaccumulative potential			
Partition coefficient: n- octanol/water	: log Pow 12.2 (calculated (citation	from literature))	
12.4 Mobility in soil			
Distribution among environ- mental compartments	: Adsorption, Soil log Koc 7.14 (calculated value)		
12.5 Results of PBT and vPvB a	ssessment		
Assessment	: The substance does not fullfill the : The substance does not fullfill the		
12.6 Other adverse effects			
Additional ecological informa- tion	: There is no data available for this	product.	

Product	: Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	: Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

# **SECTION 14: Transport information**

#### 14.1 UN number

Not regulated as a dangerous good

## 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

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# 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

## 14.6 Special precautions for user

Remarks

Not classified as dangerous in the meaning of transport regulations.

# 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

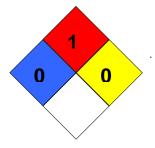
Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

**NFPA Classification** 

: Health hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0



# 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

# **SECTION 16: Other information**

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-

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lative 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

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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