according to Regulation (EC) No. 1907/2006



0420085

DL-alpha-Tocopheryl Acetate

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

1.1 Product identifier

Trade name : DL-alpha-Tocopheryl Acetate

REACH Registration Number : 01-2119457641-38-0003

Substance name : 3,4-Dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-

2H-1-benzopyran-6-ol acetate

CAS-No. : 7695-91-2

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

Use of the Sub- : For the fortification of foods, Ingredient for capsules and/or

stance/Mixture tablets, Ingredient for pharmaceutical products, Ingredient for

personal care products

1.3 Details of the supplier of the safety data sheet

Company : DSM Nutritional Products Europe Ltd

PO Box 2676 CH-4002 Basel

Telephone : +41618157777
Telefax : +41618157770

E-mail address of person : sds.nutritionalproducts@dsm.com

responsible for the SDS

1.4 Emergency telephone number

+41 848 00 11 77 (Carechem 24 International)

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

3.1 Substances

Hazardous components

Remarks : No hazardous ingredients

Further ingredients

Chemical name	CAS-No.	GHS Classification	Concentration
	EC-No.		[%]

according to Regulation (EC) No. 1907/2006



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	Registration number	
3,4-dihydro-2,5,7,8-tetramethyl-2- (4,8,12-trimethyltridecyl)-2H- benzopyran-6-yl acetate (dl-α- tocopheryl acetate)	7695-91-2 231-710-0 01-2119457641-38	>= 96 - <= 100

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 : Flush eyes with water as a precaution.

> Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No specific symptoms known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Dry chemical

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: None known.

5.3 Advice for firefighters

for firefighters

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

: Standard procedure for chemical fires. Further information

SECTION 6: Accidental release measures

2/9 MSDS GB/EN



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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, including any incompatibilities

Requirements for storage areas and containers

: 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)

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 equipment

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.

No personal respiratory protective equipment normally re-



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quired.

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.

pH : 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 limit : not determined

Upper explosion limit : not determined

Vapour pressure : < 0.001 hPa (20 °C)

ca. 1.4 hPa (240 °C)

Relative vapour density : 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 solvents : Acetone: easily soluble

Chloroform: easily soluble Diethylether: easily soluble

Alcohol: soluble

Partition coefficient: n-

octanol/water

: log Pow 12.2 (calculated (citation from literature))

Auto-ignition temperature : not pyrophoric

Ignition temperature : 320 °C (985 - 1,004 hPa, DIN 51794)

Thermal decomposition : Not relevant

Viscosity, dynamic : ca. 6,589 mPa.s (20 °C) Viscosity, kinematic : 5076 mm2/s (20 °C)

Explosive properties : Not explosive
Oxidizing properties : 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 : LD50 (Rat): > 10,000 mg/kg

(OECD Test Guideline 401)
: LD50 (Mouse): > 4,000 mg/kg
(OECD Test Guideline 401)

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 micronucleus test, Mouse, OECD Test

Guideline 474)

Carcinogenicity : (Rat, OECD Test Guideline 453)

Animal testing did not show any carcinogenic effects.

Reproductive toxicity : No toxicity to reproduction

(Rat, OECD Test Guideline 415)

Teratogenicity : not teratogenic

NOAEL: > 1,600 mg/kg bw/d (Rat, OECD Test Guideline 414)

: not teratogenic

NOAEL: > 1,600 mg/kg bw/d (Rabbit, OECD Test Guideline

414)

STOT - single exposure (A-

cute exposure)

: The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure : NOAEL (Oral, Rat) : 2000 mg/kg bw/d

Subacute toxicity study (28 days) (OECD Test Guideline 407)

: NOAEL (Oral, Rat) : 500 mg/kg bw/d Sub-chronic toxicity study (90-day)

(OECD Test Guideline 408)

Further information : The product passes into and partly through the skin of pigs.

Aspiration toxicity : No aspiration toxicity classification

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish : Oncorhynchus mykiss (rainbow trout)

LC50 (96 h) > 100 mg/l (nominal concentration) (OECD Test Guideline 203)

Toxicity to daphnia and other

aquatic invertebrates

: Daphnia magna (Water flea) EC50 (48 h) > 100 mg/l

(nominal concentration) (OECD Test Guideline 202)

Toxicity to algae : Pseudokirchneriella subcapitata (microalgae)

EC50 (72 h) > 100 mg/l (nominal concentration) (OECD Test Guideline 201)

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 trout)

NOEC (28 d) 100 mg/l (nominal concentration) (OECD Test Guideline 215)

12.2 Persistence and degradability

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 assessment

Assessment : The substance does not fullfill the PBT criteria.

: The substance does not fullfill the vPvB criteria.

12.6 Other adverse effects

Additional ecological informa: There is no data available for this product.

tion

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed dis-

posal 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

14.4 Packing group

Not regulated as a dangerous good



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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 regu-

lations

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

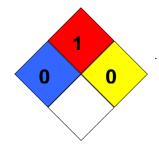
Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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, 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, Evalua-

according to Regulation (EC) No. 1907/2006



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tion, 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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