Safety data sheet

BASF Safety data sheet according to Regulation (EC) No.1907/2006
Date / Revised: 06.02.2008 Version: 1.4
Product: **Vitamin E-Acetate (DL-alpha-tocopheryl acetate)**
(30041054/SDS_GEN_EU/EN)
Date of print 28.05.2008

1. Substance/preparation and company identification

Vitamin E-Acetate (DL-alpha-tocopheryl acetate)

Use: feed additive(s), food additive(s), cosmetic ingredient

Company:
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GERMANY
Operating Division Care Chemicals
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International emergency number:
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2. Hazard identification

No particular hazards known.

3. Composition/information on ingredients

Chemical nature

Vitamin E Acetate
CAS Number: 7695-91-2
EC-Number: 231-710-0

4. First-aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air.

On skin contact:
Wash thoroughly with soap and water.

On contact with eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:
Rinse mouth and then drink plenty of water.

Note to physician:
Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-fighting measures

Suitable extinguishing media:
water spray, carbon dioxide, dry extinguishing media, foam

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:
No special precautions necessary.

Environmental precautions:
Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
For small amounts: Pick up with suitable absorbent material.
For large amounts: Pick up with suitable absorbent material.
Dispose of absorbed material in accordance with regulations.

7. Handling and storage

Handling

Processing machines must be fitted with local exhaust ventilation. Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

Storage

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Protect against heat.

8. Exposure controls and personal protection

Components with workplace control parameters

none

Personal protective equipment

Hand protection:
Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:
Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	oily	
Colour:	colourless to amber	
Odour: almost odourless		
Freezing point:	-27.5 °C	
Boiling range:	> 300 °C	
Flash point:	approx. 210 °C	(DIN 51758)
Ignition temperature:	approx. 303 °C	(DIN 51794)

Vapour pressure:	approx. 1.4 mbar (approx. 240 °C) approx. 4.0 mbar (approx. 270 °C)
Density:	approx. 0.95 - 0.96 g/cm3 (approx. 20 °C) approx. 0.93 g/cm3 (approx. 60 °C)
Solubility in water:	sparingly soluble
Solubility (qualitative) solvent(s):	organic solvents soluble
Partitioning coefficient n-octanol/water (log Pow):	12.26 (calculated) (25 °C)
Viscosity, dynamic:	approx. 700 mPa.s (approx. 40 °C)

10. Stability and reactivity

Thermal decomposition: > 300 °C

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Acute toxicity

Assessment of acute toxicity:
Virtually nontoxic after a single ingestion.

LD50 rat (oral): > 10,000 mg/kg (BASF-Test)

Irritation

Assessment of irritating effects:
Not irritating to the skin. Not irritating to the eyes.

Primary skin irritation rabbit: non-irritant (OECD Guideline 404)

Primary irritations of the mucous membrane rabbit: non-irritant (OECD Guideline 405)

Sensitization

Assessment of sensitization:
Skin sensitizing effects were not observed in animal studies.

Guinea pig maximization test guinea pig: Non-sensitizing.
Literature data.

Genetic toxicity

Assessment of mutagenicity:
Most of the results from the numerous studies available show no evidence of a mutagenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:
The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:
Fetal toxicity was not observed in animal studies which were performed with methods that do not fulfill current guidelines.

12. Ecological information

Ecotoxicity

Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms. No toxic effects occur within the range of solubility. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from products of a similar structure and composition.

Toxicity to fish:
LC50 (96 h) > 10,000 mg/l, Leuciscus idus (DIN 38412 Part 15, static)
Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure and composition.

Aquatic invertebrates:
EC50 (48 h) > 500 mg/l, Daphnia magna (Directive 79/831/EEC, static)
The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure and composition.

Microorganisms/Effect on activated sludge:
EC10 (30 min) > 10,000 mg/l, Pseudomonas putida (DIN 38412 Part 27 (draft), aquatic)
The details of the toxic effect relate to the nominal concentration.

EC20 (30 min) > 927 mg/l, activated sludge, domestic (DIN EN ISO 8192, aquatic)

Persistence and degradability

Assessment biodegradation and elimination (H2O):
Moderately/partially biodegradable. Not readily biodegradable (by OECD criteria). The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

Elimination information:
39 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic)
The product has not been tested. The statement has been derived from products of a similar structure and composition.

Bioaccumulation potential

Bioaccumulation potential:
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

13. Disposal considerations

Observe national and local legal requirements.

14. Transport information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport
ADNR

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

EC-Number: 231-710-0

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

16. Other information

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.