

Safety data sheet

Dry Vitamin E-Acetate 50% DC/GFP

Revision date : 2007/07/19
Version: 1.3

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(30253144/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
7695-91-2	>= 50.0 %	Tocopheryl Acetate
57-50-1	10.0 - 30.0 %	Sucrose
68070-94-0	10.0 - 30.0 %	Modified Corn Starch
9005-25-8	5.0 - 15.0 %	Corn starch
7732-18-5	1.0 - 5.0 %	Water

3. Hazard identification

Emergency overview

CAUTION: Contact with the eyes or skin may cause mechanical irritation.
Avoid contact with the skin, eyes and clothing.
Avoid inhalation of dusts.
Ensure adequate ventilation.
Wear a NIOSH-certified (or equivalent) particulate respirator.
Wear NIOSH-certified chemical goggles.
Wear chemical resistant protective gloves.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Information on: Tocopheryl Acetate
Virtually nontoxic after a single ingestion.

Irritation:

Information on: Tocopheryl Acetate
Not irritating to the skin. Not irritating to the eyes.

Sensitization:

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Information on: Tocopheryl Acetate
Skin sensitizing effects were not observed in animal studies.

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water.

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth and then drink plenty of water.

Seek medical attention.

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-fighting measures

Autoignition: approx. 186 °C

Suitable extinguishing media:

water, carbon dioxide, dry extinguishing media, foam

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

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

NFPA Hazard codes:

Health : 1 Fire: 2 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

Avoid dust formation.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

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Cleanup:

Dispose of absorbed material in accordance with regulations.

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

7. Handling and storage

Handling

Protection against fire and explosion:

The product is capable of dust explosion. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

General advice:

Keep container tightly closed and in a cool place.

8. Exposure controls and personal protection

Components with workplace control parameters

Sucrose	OSHA	PEL 5 mg/m ³ Respirable fraction ; PEL 15 mg/m ³ Total dust ;
	ACGIH	TWA value 10 mg/m ³ ;
Corn starch	OSHA	PEL 5 mg/m ³ Respirable fraction ; PEL 15 mg/m ³ Total dust ;
	ACGIH	TWA value 10 mg/m ³ ;

Advice on system design:

Provide adequate exhaust ventilation to control work place concentrations.

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Wear a NIOSH-certified (or equivalent) particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Wear chemical resistant protective gloves., Consult with glove manufacturer for testing data.

Eye protection:

Tightly fitting safety goggles (chemical goggles).

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:	powder
Odour:	faint odour, characteristic
Colour:	white to cream
Bulk density:	approx. 0.55 g/cm ³

Information on: Tocopheryl Acetate

Partitioning coefficient n-octanol/water (log Pow):	12.26	(25 °C) (calculated)
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10. Stability and reactivity

Hazardous reactions:

Dust explosion hazard.

Decomposition products:

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

11. Toxicological information

Oral:

Information on: Tocopheryl Acetate

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

Skin irritation:

Information on: Tocopheryl Acetate

rabbit: non-irritant (OECD Guideline 404)

Eye irritation :

Information on: Tocopheryl Acetate

rabbit: non-irritant (OECD Guideline 405)

Sensitization:

Information on: Tocopheryl Acetate

Guinea pig maximization test/guinea pig: Non-sensitizing.

Literature data.

Genetic toxicity:

Information on: Tocopheryl Acetate

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

Reproductive toxicity:

Information on: Tocopheryl Acetate

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity/teratogenicity:

Information on: Tocopheryl Acetate

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

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12. Ecological information

Information on: Tocopheryl Acetate

Test method: OECD 301F; ISO 9408; 92/69/EEC, C.4-D (aerobic), activated sludge, domestic

Method of analysis: BOD of the ThOD

Degree of elimination: 39 % (28 d)

Evaluation: 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.

Information on: Tocopheryl Acetate
calculated

Bioconcentration factor 3.2

Significant accumulation in organisms is not to be expected.

Information on: Tocopheryl Acetate

Acute and prolonged toxicity to fish:

DIN 38412 Part 15 static

golden orfe/LC50 (96 h): > 10,000 mg/l

Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

Information on: Tocopheryl Acetate

Acute toxicity to aquatic invertebrates:

Directive 79/831/EEC static

Daphnia magna/EC50 (48 h): > 500 mg/l

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.

Information on: Tocopheryl Acetate

Toxicity to microorganisms:

DIN 38412 Part 27 (draft) aerobic

bacterium/EC10 (30 min): > 10,000 mg/l

The details of the toxic effect relate to the nominal concentration.

DIN EN ISO 8192 aerobic

activated sludge, domestic/EC20 (30 min): 900 mg/l

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

14. Transport information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

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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

Federal Regulations

Registration status:

TSCA, US

released / exempt

OSHA hazard category:

Chronic target organ effects reported, ACGIH TLV established

SARA hazard categories (EPCRA 311/312): Acute, Chronic

State regulations

State RTK

CAS Number

57-50-1

9005-25-8

Chemical name

Sucrose

Corn starch

State RTK

MA, PA

MA, PA

16. Other information

HMIS III rating

Health: 1

Flammability: 2

Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

Local contact information

prod_reg@basf.com

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