

# Safety data sheet

## Dry Vitamin A-Acetate 325 GFP/E

Revision date : 2006/05/01  
Version: 1.1

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(30253192/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>
57-50-1	35.0 %	Sucrose
9005-25-8	27.0 %	Corn starch yellow
9000-01-5	20.0 %	Acacia Gum BHN
127-47-9	12.155 %	Vitamin A Acetate
7732-18-5	3.9 %	Water

### 3. Hazard identification

#### Emergency overview

CAUTION: CAUSES SKIN IRRITATION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
Eye wash fountains and safety showers must be easily accessible.  
Use with local exhaust ventilation.  
Wear protective clothing.  
Wear NIOSH-certified chemical goggles.  
Wear a NIOSH-certified (or equivalent) particulate respirator.

#### 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:**

Virtually nontoxic after a single ingestion.

##### **Irritation:**

Contact may result in eye irritation. Contact may result in skin irritation.

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### 4. First-aid measures

**General advice:**

Immediately remove contaminated clothing.

**If inhaled:**

Keep patient calm, remove to fresh air. Seek medical attention if necessary.

**If on skin:**

Wash affected areas thoroughly with soap and water.

**If in eyes:**

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

**If swallowed:**

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

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### 5. Fire-fighting measures

**Suitable extinguishing media:**

water spray, carbon dioxide, dry extinguishing media, foam

**Protective equipment for fire-fighting:**

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

**Further information:**

Do not allow to enter drains or waterways.

**NFPA Hazard codes:**

Health : 1      Fire: 0      Reactivity: 0      Special:

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### 6. Accidental release measures

**Personal precautions:**

Take appropriate protective measures. Avoid contact with the skin, eyes and clothing. Avoid dust formation.

**Environmental precautions:**

Do not discharge into drains/surface waters/groundwater.

**Cleanup:**

Dispose of absorbed material in accordance with regulations.

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

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### 7. Handling and storage

**Handling**

**General advice:**

Keep away from sources of ignition - No smoking. Handle and open container with care.

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### **Protection against fire and 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 dry; store in a cool place. Protect from air.

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## 8. Exposure controls and personal protection

### **Personal protective equipment**

#### **Respiratory protection:**

Breathing protection if dusts are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Observe OSHA regulations for respirator use (29 CFR 1910.134).

#### **Hand protection:**

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:**

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

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## 9. Physical and chemical properties

Form:	free flowing fine granules
Odour:	mild, pleasant
Colour:	yellowish
Bulk density:	approx. 600 kg/m <sup>3</sup>
<i>Information on: retinyl acetate</i>	
Partitioning coefficient n-octanol/water (log Pow):	9.4 ( 25 °C) (measured)
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Solubility in water:	( 35 - 40 °C) emulsifiable

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## 10. Stability and reactivity

#### **Hazardous reactions:**

Dust explosion hazard.

#### **Decomposition products:**

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

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### 11. Toxicological information

#### Oral:

Information on: Vitamin A Acetate  
LD50/rat: > 2,000 mg/kg (BASF-Test)

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#### Skin irritation:

Information on: Vitamin A Acetate  
rabbit: Irritant. (OECD Guideline 404)

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#### Eye irritation :

Information on: Vitamin A Acetate  
rabbit: non-irritant (OECD Guideline 405)

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#### Genetic toxicity:

Information on: Vitamin A Acetate  
Most of the results from the numerous studies available show no evidence of a mutagenic effect.  
Literature data.

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#### Reproductive toxicity:

Information on: Vitamin A Acetate  
No reliable data are available concerning reproduction toxicity.

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#### Developmental toxicity/teratogenicity:

Information on: Vitamin A Acetate  
In animal studies the substance showed a developmental toxic/teratogenic effect.  
Literature data.

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### 12. Ecological information

Information on: Vitamin A Acetate

Test method: OECD 301B; ISO 9439; 92/69/EEC, C.4-C (aerobic), activated sludge, domestic

Method of analysis: CO<sub>2</sub> formation relative to the theoretical value

Degree of elimination: 20 - 60 %

Evaluation: Not readily biodegradable (by OECD criteria).  
Moderately/partially biodegradable.

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Information on: Vitamin A Acetate

Acute and prolonged toxicity to fish:

DIN 38412 Part 15 static

golden orfe/LC50 (96 h): = > 220 < 460 mg/l

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

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Information on: Vitamin A Acetate

Acute toxicity to aquatic invertebrates:

OECD Guideline 202, part 1 static

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*Daphnia magna/EC50 (48 h): 46 mg/l*

*The statement of the toxic effect relates to the analytically determined concentration.*

*Information on: Vitamin A Acetate*

*Toxicity to aquatic plants:*

*OECD Guideline 201 static*

*green algae/EC50 (72 h): > 100 mg/l*

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

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### 13. Disposal considerations

#### **Waste disposal of substance:**

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

Do not discharge into drains/surface waters/groundwater.

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### 14. Transport information

#### **Land transport**

*USDOT*

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

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### 15. Regulatory information

#### **Federal Regulations**

##### **Registration status:**

TSCA, US

released / exempt

##### **OSHA hazard category:**

Not hazardous

**SARA hazard categories (EPCRA 311/312):** Not hazardous

#### **State regulations**

##### **State RTK**

##### **CAS Number**

9000-01-5

##### **Chemical name**

Acacia Gum BHN

##### **State RTK**

NJ

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### 16. Other information

#### HMIS III rating

Health: 1      Flammability: 0      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.

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