

# Safety Data Sheet

## Vitamin A-Palmitate 1.7 Mio IU/G stabilized with BHT

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(30041041/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Vitamin A-Palmitate 1.7 Mio IU/G stabilized with BHT

#### Recommended use of the chemical and restriction on use

Recommended use\*: feed additive(s), food additive(s), cosmetic ingredient

Unsuitable for use: Not intended for sale to or use by the general public.

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Molecular formula: C(36)H(60)O(2)

Synonyms: Retinyl palmitate stabilized with: 2,6-di-tert-Butyl-p-cresol

### 2. Hazards Identification

#### According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic
Repr.	1B (unborn child)	Reproductive toxicity

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### Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H360

May damage the unborn child.

H412

Harmful to aquatic life with long lasting effects.

H402

Harmful to aquatic life.

Precautionary Statements (Prevention):

P280

Wear protective gloves, protective clothing and eye protection or face protection.

P201

Obtain special instructions before use.

P273

Avoid release to the environment.

P202

Do not handle until all safety precautions have been read and understood.

Precautionary Statements (Response):

P308 + P311

IF exposed or concerned: Call a POISON CENTER or physician.

Precautionary Statements (Storage):

P405

Store locked up.

Precautionary Statements (Disposal):

P501

Dispose of contents and container to hazardous or special waste collection point.

### Hazards not otherwise classified

When finely distributed on porous material, self-ignition is possible. High risk of slipping due to leakage/spillage of product.

## 3. Composition / Information on Ingredients

### According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Vitamin A palmitate

CAS Number: 79-81-2

Content (W/W): 80.0 - 100.0%

Synonym: No data available.

BHT

CAS Number: 128-37-0

Content (W/W): 1.0 - 5.0%

Synonym: 2,6-Bis(1,1-dimethylethyl)-4-methylphenol; BHT, Butylated hydroxytoluene, 2,6-Di-tert-butyl-p-cresol

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The actual concentration is withheld as a trade secret.

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

##### If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

##### If in eyes:

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

##### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

*Information on: Vitamin A palmitate*

*Symptoms: Overexposure may cause: Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

#### Indication of any immediate medical attention and special treatment needed

##### Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon oxides, harmful vapours

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The substances/groups of substances mentioned can be released in case of fire. Generation of fumes/fog.

### Advice for fire-fighters

Protective equipment for fire-fighting:

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

### Further information:

In case of combustion evolution of toxic gases/vapours possible. Cool endangered containers with water-spray. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Do not spray water directly on fire, product will float and could be reignited on surface of water.

### Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

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## 6. Accidental release measures

### Further accidental release measures:

High risk of slipping due to leakage/spillage of product. Soiled textiles/cleaning rags made of natural fibres (e.g. of pure wool or of pure cotton) are capable of ignition and should not be used and/or must be disposed of in a safe manner.

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures, see section 8. Ensure adequate ventilation. Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater. Inform authorities in the event of product spillage to water courses or sewage systems.

### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material. Do not use saw-dust or other combustible substances as an absorbant during cleanup.

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Mop up spills with non-flammable adsorbents (e.g. vermiculite, spill mats). Soiled textiles / cleaning rags / adsorbents and Silica are capable of self ignition and should be wetted with water and must be disposed of in a safe manner.

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## 7. Handling and Storage

### Precautions for safe handling

Mix thoroughly before use.

Protection against fire and explosion:

No explosion proofing necessary.

### Conditions for safe storage, including any incompatibilities

Segregate from oxidants.

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Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect from air. Protect from the effects of light. Keep under nitrogen.

### 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

BHT ACGIH, US: TWA value 2 mg/m3 Inhalable fraction and vapor ;

#### **Advice on system design:**

Provide local exhaust ventilation to control dusts/mists.

#### Personal protective equipment

##### **Respiratory protection:**

Respiratory protection in case of vapour/aerosol release. Wear a NIOSH-certified (or equivalent) particulate respirator.

##### **Hand protection:**

Wear chemical resistant protective gloves.

##### **Eye protection:**

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

##### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

##### **General safety and hygiene measures:**

Females in early pregnancy must never be exposed to the substance. Under no circumstances should the product come into contact with the skin of pregnant women or be inhaled by them. Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid contact with skin. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

### 9. Physical and Chemical Properties

Physical state:	liquid
Form:	oil, partially crystallized
Odour:	not applicable
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	yellowish
pH value:	substance/mixture is non-soluble (in water)
Melting point:	approx. 26 °C
Freezing point:	No data available.
Boiling point:	The substance / product decomposes therefore not determined.
Flash point:	118 °C
	(ISO 2719, closed cup)

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Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	261 °C	(DIN EN 14522)
SADT:	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.	
Vapour pressure:	( 20 °C) negligible	
Density:	921.1 kg/m3 ( 20 °C)	(pycnometer)
Relative density:	0.9211 ( 20 °C)	(pycnometer)
Relative vapour density:	> 1 ( 20 °C) Heavier than air.	(estimated)
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Thermal decomposition:	>= 170 °C (DSC (DIN 51007)) self-accelerating reaction	
Viscosity, dynamic:	44 mPa.s ( 60 °C)	
Viscosity, kinematic:	No data available.	
Solubility in water:	insoluble	
Solubility (qualitative):	soluble solvent(s): organic solvents,	
Molecular weight:	No data available.	
Evaporation rate:	negligible	

### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form.

## 10. Stability and Reactivity

### Reactivity

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

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Formation of

Remarks:

flammable gases:

Forms no flammable gases in the presence of water.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

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### Possibility of hazardous reactions

Self-ignition is possible when finely distributed on flammable surfaces in the presence of air.

### Conditions to avoid

Temperature: > 60 degrees Celsius

Disregard of the conditions mentioned may result in undesirable decomposition reactions. Avoid light. See SDS section 7 - Handling and storage.

### Incompatible materials

oxidizing agents

### Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

>= 170 °C (DSC (DIN 51007))

self-accelerating reaction

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## 11. Toxicological information

### Primary routes of exposure

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

### Acute Toxicity/Effects

#### Acute toxicity

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

#### Oral

*Information on: Vitamin A palmitate*

*Type of value: LD50*

*Species: rat (male/female)*

*Value: > 2,000 mg/kg (BASF-Test)*

*No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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#### Inhalation

No data available.

#### Dermal

No data available.

#### Assessment other acute effects

Assessment of STOT single:

Based on available data, the classification criteria are not met.

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### Irritation / corrosion

Assessment of irritating effects: Not irritating to the eyes. May cause slight irritation to the skin.

### Skin

*Information on: Vitamin A palmitate*

*Species: rabbit*

*Result: Irritant.*

*Method: BASF-Test*

*Species: rabbit*

*Result: Slightly irritating.*

*Method: OECD Guideline 404*

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### Eye

*Information on: Vitamin A palmitate*

*Species: rabbit*

*Result: non-irritant*

*Method: OECD Guideline 405*

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### Sensitization

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

*Information on: Vitamin A palmitate*

*Guinea pig maximization test*

*Species: guinea pig*

*Result: Non-sensitizing.*

*Method: OECD Guideline 406*

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### Aspiration Hazard

No data available.

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

### Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

*Information on: Vitamin A palmitate*

*Assessment of mutagenicity: In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.*

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### Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

*Information on: Vitamin A palmitate*

*Assessment of carcinogenicity: Results from a number of long-term carcinogenicity studies and short-term tests are available. Taking into account all of the information, there is no indication that the substance itself is carcinogenic. Literature data.*

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### Reproductive toxicity

Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.

*Information on: Vitamin A palmitate*

*Assessment of reproduction toxicity: No reliable data are available concerning reproduction toxicity.*

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### Teratogenicity

Assessment of teratogenicity: May cause harm to the unborn child.

*Information on: Vitamin A palmitate*

*Assessment of teratogenicity: May cause harm to the unborn child.*

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### Development

### Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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## 12. Ecological Information

### **Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Toxicity to fish

*Information on: BHT*

*LC0 (96 h)  $\geq$  0.57 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EWG, C.1, semistatic)*

*The statement of the toxic effect relates to the analytically determined concentration. Limit concentration test only (LIMIT test).*

*Information on: Vitamin A palmitate*

*LC50 (96 h)  $>$  10,000 mg/l, Leuciscus idus (DIN 38412 Part 15, static)*

*The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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### Aquatic invertebrates

Information on: BHT

EC0 (48 h) 0.48 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

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

Information on: Vitamin A palmitate

EC50 (48 h) > 100 mg/l, *Daphnia magna* (Screening test, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from substances/products of a similar structure or composition.

### Aquatic plants

Information on: BHT

EC50 (72 h) > 0.40 mg/l (growth rate), *Scenedesmus subspicatus* (Guideline 92/69/EEC, C.3, static)

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

Information on: Vitamin A palmitate

EC50 (72 h) 152.94 mg/l (growth rate), *Scenedesmus subspicatus* (DIN 38412 Part 9, static)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

### Chronic toxicity to aquatic invertebrates

Information on: BHT

No observed effect concentration (21 d) 0.316 mg/l, *Daphnia magna* (OECD Guideline 202, part 2, semistatic)

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

Information on: Vitamin A palmitate

Study scientifically not justified.

## Microorganisms/Effect on activated sludge

### Toxicity to microorganisms

Information on: BHT

DIN EN ISO 8192-OECD 209-88/302/EEC, *P. C* aerobic activated sludge/EC0 (3 h): 1,000 mg/l

Information on: Vitamin A palmitate

DIN EN ISO 8192-OECD 209-88/302/EEC, *P. C* aerobic activated sludge, domestic/EC20 (30 min): > 1,000 mg/l

## Persistence and degradability

### Assessment biodegradation and elimination (H2O)

Not readily biodegradable (by OECD criteria).

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### Elimination information

*Information on: BHT*

*4.5 % BOD of the ThOD (28 d) (OECD 301C; ISO 9408; 92/69/EWG, C.4-F) (aerobic, activated sludge)*

*Information on: Vitamin A palmitate*

*40 - 50 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EWG, C.4-D) (aerobic, activated sludge, domestic)*

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### **Bioaccumulative potential**

#### Assessment bioaccumulation potential

The product contains components with potential for bioaccumulation

#### Bioaccumulation potential

*Information on: BHT*

*Bioconcentration factor: 330 - 1,800 (28 d), Cyprinus carpio (OECD Guideline 305 C)*

*Bioconcentration factor: 230 - 2,500 (56 d), Cyprinus carpio (OECD Guideline 305 C)*

*Information on: Vitamin A palmitate*

*No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).*

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### **Mobility in soil**

#### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is expected.

*Information on: BHT*

*The substance will not evaporate into the atmosphere from the water surface.*

*Adsorption to solid soil phase is expected.*

*Information on: Vitamin A palmitate*

*The substance will not evaporate into the atmosphere from the water surface.*

*Adsorption to solid soil phase is expected.*

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### **Additional information**

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from the properties of the individual components.

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### 13. Disposal considerations

**Waste disposal of substance:**

Observe national and local legal requirements.

**Container disposal:**

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**

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:**

Food TSCA, US released / exempt

Feed TSCA, US released / exempt

Chemical TSCA, US released / listed

Chemical TSCA, US

All substances are TSCA listed and active.

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

**State regulations**

**State RTK**

**CAS Number**

**Chemical name**

NJ

128-37-0

BHT

PA

128-37-0

BHT

**Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**BASF Risk Assessment, CA Prop. 65:**

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Based on an evaluation of the product's composition and the use(s) described in this section below, this product does not require a California Proposition 65 Warning:

Human nutrition

### NFPA Hazard codes:

Health: 1      Fire: 1      Reactivity: 0      Special:

### HMIS III rating

Health: 1      Flammability: 1      Physical hazard: 0

### Assessment of the hazard classes according to UN GHS criteria (most recent version):

Repr.	1B (unborn child)	Reproductive toxicity
Skin Corr./Irrit.	3	Skin corrosion/irritation
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic
Aquatic Acute	3	Hazardous to the aquatic environment - acute

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2025/09/19

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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