1. Identification

Product identifier used on the label

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

Recommended use of the chemical and restriction on use

Recommended use*: feed additive(s), food additive(s)

* 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 Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Synonyms: dl-alpha Tocopheryl Acetate
Vitamin E Acetate

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.
Hazards not otherwise classified

When finely distributed, self-ignition is possible. 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. High risk of slipping due to leakage/spillage of product. The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

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

If on skin:
Wash thoroughly with soap and water.

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

If swallowed:
Rinse mouth and then drink 200-300 ml of water.

Most important symptoms and effects, both acute and delayed

Symptoms: (Further) symptoms and / or effects are not known so far
Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

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

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, carbon dioxide, dry powder, alcohol-resistant foam
 Unsuitable extinguishing media for safety reasons: water jet

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

**Hazards during fire-fighting:**
- harmful vapours, carbon oxides
- Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

**Advice for fire-fighters**

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.
- Cool endangered containers with water-spray.

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**6. Accidental release measures**

**Further accidental release measures:**
- High risk of slipping due to leakage/spillage of product.

**Personal precautions, protective equipment and emergency procedures**

- Use personal protective clothing. Information regarding personal protective measures see, section 8.

**Environmental precautions**

- Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

- For small amounts: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).
- For large amounts: Dike spillage. Pump off product.
- 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. Dispose of absorbed material in accordance with regulations.

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**7. Handling and Storage**

**Precautions for safe handling**

- No special measures necessary provided product is used correctly.

**Protection against fire and explosion:**

- No explosion proofing necessary.

**Conditions for safe storage, including any incompatibilities**

- No applicable information available.

- Suitable materials for containers: Stove-lacquer O 360, High density polyethylene (HDPE)

**Further information on storage conditions:**
- Containers should be stored tightly sealed in a dry place.
- Protect against heat.
8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Advice on system design:
Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:
Wear chemical resistant protective gloves.

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. Wearing of closed work clothing is recommended. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form: oily
Odour: almost odourless
Odour threshold: not determined
Colour: colourless to amber
pH value: not applicable
Freezing point: < -20 °C
Boiling point: > 300 °C
Sublimation point: No applicable information available.
Flash point: 257 °C (DIN EN 22719; ISO 2719, closed cup)

Flammability: hardly combustible
Lower explosion limit: For liquids not relevant for classification and labelling.
Upper explosion limit: For liquids not relevant for classification and labelling.
Autoignition: 382 °C (DIN EN 14522)
Vapour pressure: Study scientifically not justified.
Density: 0.98 g/cm³ (20 °C)
Vapour density: No data available.
Partitioning coefficient n-octanol/water (log Pow): 12.25 (25 °C) (calculated)
Self-ignition temperature: Risk of self-ignition when a large surface area is produced due to fine dispersion.
Thermal decomposition: 430 °C (DSC (DIN 51007))
Viscosity, kinematic: 5,706 mm²/s (20 °C) (OECD 114)
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.

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

Possibility of hazardous reactions
When finely distributed, self-ignition is possible.

Conditions to avoid
Avoid direct sunlight. Avoid heat.

Incompatible materials
strong alkalies, strong oxidizing agents

Hazardous decomposition products

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

Thermal decomposition:
430 °C (DSC (DIN 51007))

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. Virtually nontoxic after a single skin contact.

Oral
Type of value: LD50
Species: rat (male/female)
Value: > 10,000 mg/kg (BASF-Test)

Dermal
Type of value: LD50
Species: rat
Value: > 3,000 mg/kg (similar to OECD guideline 402)

Assessment other acute effects
Assessment of STOT single:
Based on available data, the classification criteria are not met.

Irritation / corrosion
Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Skin
Species: rabbit
Result: non-irritant
Method: OECD Guideline 404

Eye
Species: rabbit
Result: non-irritant
Method: OECD Guideline 405

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

photo-allergy test
Species: guinea pig
Result: Non-sensitizing.

Aspiration Hazard
No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects.

Genetic toxicity
Assessment of mutagenicity: No mutagenic effect was found in various tests with bacteria and mammals.

Carcinogenicity
Assessment of carcinogenicity: In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was not observed.

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

Teratogenicity
Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Symptoms of Exposure
(Further) symptoms and / or effects are not known so far

12. Ecological Information

Toxicity
Aquatic toxicity
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.

Toxicity to fish
LC50 (96 h) > 11 mg/l, Oncorhynchus mykiss (OECD Guideline 203, static)
The statement of the toxic effect relates to the analytically determined concentration. No toxic effects occur within the range of solubility.

Aquatic invertebrates
EC50 (48 h) > 20.6 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
The statement of the toxic effect relates to the analytically determined concentration. No toxic effects occur within the range of solubility.

Aquatic plants
EC50 (72 h) > 27.8 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)
The statement of the toxic effect relates to the analytically determined concentration. No toxic effects occur within the range of solubility.

Chronic toxicity to fish
No observed effect concentration (28 d) > 100 mg/l, Oncorhynchus mykiss (OECD Guideline 215, semistatic)

Chronic toxicity to aquatic invertebrates
Study scientifically not justified.

Assessment of terrestrial toxicity
No data available.

Microorganisms/Effect on activated sludge
Toxicity to microorganisms
DIN EN ISO 8192 aquatic activated sludge, domestic/EC20 (30 min): > 927 mg/l
The details of the toxic effect relate to the nominal concentration.

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
30 - 40 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic)

Assessment of stability in water
In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis)
t₁/₂ 326 d (25 °C, pH value 7), (calculated, pH 7)

Bioaccumulative potential
Assessment bioaccumulation potential
Accumulation in organisms is not to be expected.

Mobility in soil
Assessment transport between environmental compartments
The substance will slowly evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is expected.

13. Disposal considerations

Waste disposal of substance:
Observe national and local legal requirements.
Dispose of in a licensed facility. Do not discharge into drains/surface waters/groundwater.

Container disposal:
Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport
TDG
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:**
- Chemical: DSL, CA released / listed
- Food: DSL, CA released / listed
- Cosmetic: DSL, CA released / listed

**NFPA Hazard codes:**
- Health: 0
- Fire: 1
- Reactivity: 0
- Special:

16. Other Information

**SDS Prepared by:**
BASF NA Product Regulations
SDS Prepared on: 2019/03/18

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.

END OF DATA SHEET