

# Safety Data Sheet

## LycoVit® 10 CWD/S

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(30276090/SDS\_GEN\_CA/EN)

### 1. Identification

#### Product identifier used on the label

## LycoVit® 10 CWD/S

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

Recommended use\*: food additive(s)

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 Canada Inc.  
5025 Creekbank Road  
Building A, Floor 2  
Mississauga, ON, L4W 0B6, CANADA

Telephone: +1 289 360-1300

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: (800) 454-COPE (2673)

#### Other means of identification

Synonyms: Psi,psi-carotene (Content (WW): 10 %) in a matrix of: carbohydrates

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### 2. Hazards Identification

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

#### Classification of the product

Skin Sens.	1	Skin sensitization
Combustible Dust	Combustible Dust (1)	Combustible Dust

#### Label elements

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Pictogram:



Signal Word:  
Warning

Hazard Statement:

H317 May form combustible dust concentration in air.  
May cause an allergic skin reaction.

Precautionary Statements (Prevention):

P280 Wear protective gloves.  
P261 Avoid breathing dust or fume.  
P272 Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

The product is under certain conditions capable of dust explosion.

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## 3. Composition / Information on Ingredients

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

D,L-alpha-Tocopherol

CAS Number: 10191-41-0

Content (W/W): 1.0 - 3.0%

Synonym: 2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Remove contaminated clothing.

#### If inhaled:

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

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### If on skin:

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

### 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: D,L-alpha-Tocopherol*

*Symptoms: Overexposure may cause: allergic contact dermatitis, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

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## 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.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:  
foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:  
water jet

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours, carbon oxides

The substances/groups of substances mentioned can be released in case of fire. Dust explosion hazard.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

### 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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Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

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### 6. Accidental release measures

#### Further accidental release measures:

Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Avoid dispersal of dust in the air (e.g. by clearing dusty surfaces with compressed air).

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

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

#### **Environmental precautions**

Do not discharge into drains/surface waters/groundwater.

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

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Dispose of absorbed material in accordance with regulations. Avoid raising dust.

Nonsparking tools should be used.

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### 7. Handling and Storage

#### **Precautions for safe handling**

Avoid dust formation. Provide exhaust ventilation if dust is formed.

#### Protection against fire and explosion:

Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

Dust explosion class: Dust explosion class 1 (Kst-value >0 up to 200 bar m s-1).

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

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

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### 8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

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### Advice on system design:

Provide local exhaust ventilation to control dust. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

#### Hand protection:

Chemical resistant protective gloves

#### Eye protection:

Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures.

#### 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 required additionally to the stated personal protection equipment. Avoid contact with the skin, eyes and clothing. 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.

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## 9. Physical and Chemical Properties

Form:	powder
Odour:	faint odour
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	red violet
pH value:	6 - 7 ( 10 %(m), 20 °C)
Melting point:	The substance / product decomposes therefore not determined.
Freezing point:	No data available.
Boiling point:	not applicable
Flash point:	not applicable, the product is a solid
Flammability:	not highly flammable (UN Test N.1 (ready combustible solids))
Lower explosion limit:	For solids not relevant for classification and labelling.
Upper explosion limit:	For solids not relevant for classification and labelling.
SADT:	> 75 °C Heat accumulation / Dewar 500 ml (SADT, UN-Test H.4, 28.4.4)
Vapour pressure:	negligible

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Density:	No information is available for the absolute density. Instead the bulk density was determined as a more relevant value.
Bulk density:	480 kg/m <sup>3</sup>
Vapour density:	not applicable, The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures
Thermal decomposition:	>= 200 °C (DSC (DIN 51007)) self-accelerating reaction
Viscosity, dynamic:	not applicable, the product is a solid
Viscosity, kinematic:	not applicable, the product is a solid
Solubility in water:	( 20 °C) dispersible
Molar mass:	No data available.
Evaporation rate:	negligible

## 10. Stability and Reactivity

### Reactivity

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

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

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

Dust explosion class:

Dust explosion class 1 (Kst-value >0 up to 200 bar m s<sup>-1</sup>) (St 1)

Minimum ignition energy:  
(DIN EN 13821)

The product is capable of dust explosion.

### Chemical stability

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

### Possibility of hazardous reactions

Dust explosion hazard.

### Conditions to avoid

Avoid dust formation. Avoid electro-static discharge. Avoid all sources of ignition: heat, sparks, open flame.

### Incompatible materials

atmospheric moisture

### Hazardous decomposition products

Decomposition products:

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

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Thermal decomposition:  
>= 200 °C (DSC (DIN 51007))  
self-accelerating reaction

## 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: Lycopene*

*Type of value: LD50*

*Species: rat (male/female)*

*Value: > 5,000 mg/kg (OECD Guideline 423)*

*The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

#### 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.

#### Irritation / corrosion

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

#### Skin

*Information on: Lycopene*

*Species: rabbit*

*Result: non-irritant*

*Method: OECD Guideline 404*

*The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

#### Eye

*Information on: Lycopene*

*Species: rabbit*

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*Result: non-irritant*

*Method: OECD Guideline 405*

*The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

### Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

*Information on: D,L-alpha-Tocopherol*

*Mouse Local Lymph Node Assay (LLNA)*

*Species: mouse*

*Result: sensitizing*

*Method: OECD Guideline 406*

### Aspiration Hazard

not applicable

## 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: Lycopene*

*Assessment of mutagenicity: Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.*

### Carcinogenicity

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

### Reproductive toxicity

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

### Teratogenicity

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

### Other Information

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

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## 12. Ecological Information

### Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

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There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

### Toxicity to fish

*Information on: Lycopene*

*LC50 (96 h) > 100 mg/l, Leuciscus idus (DIN 38412 Part 15, static)*

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

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## **Microorganisms/Effect on activated sludge**

### Toxicity to microorganisms

*Information on: Lycopene*

*DIN 38412 Part 27 (draft) aerobic*

*bacterium/EC50 (0.5 h): > 10,000 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.*

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## **Persistence and degradability**

### Assessment biodegradation and elimination (H2O)

The single components are biological degradable.

### Assessment biodegradation and elimination (H2O)

*Information on: Lycopene*

*Not readily biodegradable (by OECD criteria). The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Moderately/partially biodegradable.*

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## **Bioaccumulative potential**

### Assessment bioaccumulation potential

Significant accumulation in organisms is not to be expected.

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

### Assessment bioaccumulation potential

*Information on: Lycopene*

*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

Adsorption to solid soil phase is expected.

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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:**

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

**Container disposal:**

Dispose of container and any rinsate in an environmentally safe manner.

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### 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

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### 15. Regulatory Information

**Federal Regulations**

**Registration status:**

Chemical DSL, CA released / listed

Food DSL, CA released / listed

**NFPA Hazard codes:**

Health: 2 Fire: 1 Reactivity: 0 Special:

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

Skin Sens. 1 Skin sensitization

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2023/06/27

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