

# Safety Data Sheet Lucantin® Yellow

Revision date: 2017/11/22 Page: 1/10
Version: 1.0 (30041147/SDS\_GEN\_PA/EN)

#### 1. Identification

#### Product identifier used on the label

# Lucantin® Yellow

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

Recommended use\*: feed additive(s)

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

#### Company:

Master Builders Solutions Panamá S.A. Galera 9130, Locales 3 y 3A
Avenida A, Panamerica Corporate Center Sur
Panamá-Pacífico, Panamá
República de Panamá
0831-01270 Paitilla, Panamá
+(507) 210-0050 -> Central Office
+(507) 297-4250 -> Site

Telephone: +(507) 210-0050

# **Emergency telephone number**

International emergency number: Telephone: +49 180 2273-112

#### Other means of identification

Synonyms: Preparation based on Ethyl 8'-apo-β-caroten-8'-oat

#### 2. Hazards Identification

## According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Combustible Dust Combustible Dust (1) Combustible Dust

## Label elements

<sup>\*</sup> 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.

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Signal Word: Warning

Hazard Statement:

May form combustible dust concentration in air.

#### Hazards not otherwise classified

The product is under certain conditions capable of dust explosion. 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 Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

| CAS Number | Weight %     | <b>Chemical name</b> |
|------------|--------------|----------------------|
| 57-50-1    | 36.0 - 40.0% | Sucrose              |
| 8001-21-6  | 3.0 - 5.0%   | Sunflower oil        |
| 91-53-2    | 3.0 - 5.0%   | Ethoxyquin           |

#### 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.

#### 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, consult an eye specialist.

#### 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

Symptoms: No significant symptoms are expected due to the non-classification of the product.

#### 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

### **Extinguishing media**

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

Unsuitable extinguishing media for safety reasons: water jet

# Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon oxides, harmful vapours

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

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

#### 6. Accidental release measures

#### Further accidental release measures:

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). 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.

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

Use personal protective clothing. Information regarding personal protective measures see, section 8. Avoid dust formation.

#### **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.

# 7. Handling and Storage

#### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

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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.

### Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Protect contents from the effects of light. Keep container tightly closed and in a cool place.

### 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

#### Advice on system design:

Ensure adequate ventilation. 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:

Breathing protection if dusts are formed. Wear a NIOSH-certified (or equivalent) particulate respirator.

#### Hand protection:

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. Avoid inhalation of dust. Avoid contact with the skin, eyes and clothing. Eye wash fountains and safety showers must be easily accessible. 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

Form: powder

Odour: faint specific odour
Odour threshold: not determined
Colour: brick-red
pH value: not determined
Melting point: not determined

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Boiling point: not applicable

Flash point: not applicable, the product is a solid

Flammability: not highly flammable (VDI 2263, sheet 1,

1.1)

Lower explosion limit: For solids not relevant for

classification and labelling.

Upper explosion limit: For solids not relevant for

classification and labelling.

Vapour pressure: not applicable
Bulk density: approx. 600 kg/m3
Vapour density: not applicable

Partitioning coefficient n- not applicable for mixtures

octanol/water (log Pow):

Information on: ethyl 8'-apo-beta-caroten-8'-oate

Partitioning coefficient n- 12.79 (calculated)

octanol/water (log Pow): (25 °C)

Information on: Ethoxyquin

Partitioning coefficient n- 3.87 octanol/water (log Pow): (25 °C)

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Thermal decomposition: >= 145 °C (DSC (OECD 113))
Viscosity, dynamic: not applicable, the product is a solid

Solubility in water: ( > 35 °C)

dispersible not applicab

Evaporation rate: not applicable

# 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.

Minimum ignition energy:

> 1 J (DIN EN 13821)

The product is capable of dust explosion.

#### Chemical stability

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

Peroxides: The product does not contain peroxides.

#### Possibility of hazardous reactions

Dust explosion hazard.

#### Conditions to avoid

## Incompatible materials

None known during use and storage if used according to instructions.

#### Hazardous decomposition products

Decomposition products:

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

Thermal decomposition: >= 145 °C (DSC (OECD 113))

### 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.

#### <u>Oral</u>

Information on: Ethoxyquin
Type of value: LD50

Species: rat

Value: 800 - 1,000 mg/kg (other)

Information on: ethyl 8'-apo-beta-caroten-8'-oate

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

#### 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.

Information on: Sodium benzoate

Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.

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#### Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Information on: Ethoxyquin Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

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#### **Aspiration Hazard**

No data available.

#### **Chronic Toxicity/Effects**

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#### Repeated dose toxicity

Assessment of repeated dose toxicity: Not classified, due to lack of data.

#### Genetic toxicity

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

Information on: ethyl 8'-apo-beta-caroten-8'-oate

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Literature data.

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#### Carcinogenicity

Assessment of carcinogenicity: Not classified, due to lack of data.

#### Reproductive toxicity

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

#### Other Information

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

#### Symptoms of Exposure

No significant symptoms are expected due to the non-classification of the product.

#### 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. 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

Information on: ethyl 8'-apo-beta-caroten-8'-oate

LC50 (96 h) approx. 5,300 mg/l, Leuciscus idus (DIN 38412 Part 15, static)

The details of the toxic effect relate to the nominal concentration. No toxic effects occur within the range of solubility.

Information on: Ethoxyquin

LC50 (96 h) 18 mg/l, Oncorhynchus mykiss (OPP 72-1 (EPA-Guideline), Flow through.)

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

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#### Persistence and degradability

Assessment biodegradation and elimination (H2O)

The product has not been tested.

#### Elimination information

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Information on: ethyl 8'-apo-beta-caroten-8'-oate

10 - 20 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic)

Information on: Ethoxyquin

< 20 % BOD of the ThOD (25 d) (OECD Guideline 301 F) (aerobic, activated sludge, industrial)

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#### **Bioaccumulative potential**

#### Assessment bioaccumulation potential

The product has not been tested.

#### Assessment bioaccumulation potential

Information on: Ethoxyquin

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

Information on: ethyl 8'-apo-beta-caroten-8'-oate

No significant accumulation in organisms is expected as a result of the distribution coefficient of noctanol/water (log Pow). The product will not be readily bioavailable due to its consistency and insolubility in water.

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#### Mobility in soil

# Assessment transport between environmental compartments

not determined

Information on: ethyl 8'-apo-beta-caroten-8'-oate

The substance will rapidly evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is expected.

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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

TDG

Hazard class: 4.2 Packing group: III

ID number: UN 3088 Hazard label: 4.2

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Proper shipping name: SELF-HEATING SOLID, ORGANIC, N.O.S. (contains ETHYL-8'-

APO-ß-CAROTEN-8'-OATE)

Sea transport

**IMDG** 

Hazard class: 4.2
Packing group: III
ID number: UN 3088
Hazard label: 4.2
Marine pollutant: NO

Proper shipping name: SELF-HEATING SOLID, ORGANIC, N.O.S. (contains ETHYL-8'-

APO-ß-CAROTEN-8'-OATE)

Air transport

IATA/ICAO

Hazard class: 4.2
Packing group: III
ID number: UN 3088
Hazard label: 4.2

Proper shipping name: SELF-HEATING SOLID, ORGANIC, N.O.S. (contains ETHYL-8'-

APO-ß-CAROTEN-8'-OATE)

**Further information** 

Not dangerous goods of class 4.2 in packages up to 3000 litres capacity.

# 15. Regulatory Information

#### **Federal Regulations**

Not applicable

NFPA Hazard codes:

Health: 0 Fire: 1 Reactivity: 0 Special:

**HMIS III rating** 

Health: 0 Flammability: 1 Physical hazard: 0

#### 16. Other Information

#### SDS Prepared by:

Master Builders Solutions NA Product Regulations

SDS Prepared on: 2017/11/22

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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This information is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for the product must be applied.

END OF DATA SHEET