

MATERIAL SAFETY DATA SHEET

According to Regulation REACH (EC) No 1907/2006 and Regulation (EU) No 453/2010

LUCTAROM 32619Z

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product: LUCTAROM 32619Z

CAS Number: Not applicable (mixture)

REACH Registration: —

1.2. Relevant identified uses of the substance or mixture and uses advised against

Premix for the manufacture of animal feed only. Do not ingest.

1.3. Details of the supplier of the safety data sheet

Company: Lucta S.A.

Carrer de Can Parellada, 28 - 08170 Montornès del Vallès. Barcelona España.

Tel. +34 938 458 888 - Fax. +34 938 458 180

Web: www.lucta.com - e-mail: sola@lucta.es

1.4. Emergency telephone number

Tel. +34 938 458 888 (9:00-17:00 h GMT+1)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Directives 67/548/CEE and 1999/45/CE



Irritant

Harmful to aquatic organisms

2.2. Label elements

Classification according to Directive 67/548/CEE and Directive 1999/45/CEE and modifications.

Contains:

gamma-undecalactone

CAS 104-67-6

Cinnamaldehyde

CAS 104-55-2

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| | |
|-----|--|
| XI | Irritant |
| R43 | May cause sensitisation by skin contact |
| R52 | Harmful to aquatic organisms |
| R53 | May cause long-term adverse effects in the aquatic environment |
| S24 | Avoid contact with skin |
| S37 | Wear suitable gloves |

2.3. Other hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains:

| | |
|---------------------|--------------|
| Cinnamaldehyde | CAS 104-55-2 |
| gamma-undecalactone | CAS 104-67-6 |

4. FIRST AID MEASURES**4.1. Description of first aid measures****Eye contact:**

Rinse immediately with plenty of water during minimum 15 minutes. If necessary, call a doctor.

Skin contact:

Remove contaminated clothes. Wash exposed area with soap and water. If necessary, call a doctor.

Accidental ingestion:

Rinse mouth with water. Give up to one tumbler of milk or water. If necessary, call a doctor.

Excessive inhalation:

Take out the person from the place of the accident to the open air. If necessary, call a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Take the phrases of risk and security (section 2) into consideration.

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4.3. Indication of any immediate medical attention and special treatment needed

In case of intoxication, it is of maximum importance a medical revision.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing recommended media:

Use carbon dioxide, dry powder, foam or pulverized water fire extinguisher.

Extinguishing inadvisable media:

Water-jet.

Fire-fighting procedures:

Use the standard ones. Avoid breathing directly over the product. If necessary, use appropriate ventilation systems.

5.2. Special hazards arising from the substance or mixture

Possibility of exposure to toxic combustion products.

5.3. Advice for firefighters

Self contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid steam inhalation and the contact with skin and eyes. Keep a suitable ventilation in the affected work areas.

6.2. Environmental precautions

Do not spill in water-drainages, underground waters or superficial nor on the land.

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6.3. Methods and material for containment and cleaning up

Extinguish ignition sources. Give suitable ventilation. Manipulate with suitable gloves. Absorb spills or pools using sand or inert powder. Material used for cleaning up spillages should be disposed of promptly in accordance with the regulation in force.

6.4. Reference to other sections

See section 8 and 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Respect the habitual rules of personal hygiene and cleaning. Wear gloves and protection for eyes and/or face, if necessary. Wash with plenty of water after a contact with chemical agents, before the breaks, meals and at the end of the daily period of work. The clothes and shoes should be washed thoroughly before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition. Avoid smoking in storage areas and when handling. Keep in a cool, dry place, away from light in full tightly closed containers.

7.3. Specific end use(s)

See section 1.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No information available.

8.2. Exposure controls

Exposure controls:

If possible, use closed systems for transference or for processing the product. Make the process of incorporation at the lowest temperature. Always maintain the spaces properly ventilated.

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Individual protection:

- Hand Protection: Avoid contact with skin. Wear gloves resistant to chemical agents.
- Eye Protection: Use protective glasses against splashes, where it is indicated.
- Breathing protection: Avoid breathing directly over the product. If necessary use appropriate protection systems.
- Skin Protection: wear suitable clothes to prevent odour contamination in the personal clothes, where it is indicated.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | | |
|--|-------------------|-----|
| Appearance | powder | |
| Colour | light yellow | |
| | yellow | |
| Odour | characteristic | |
| Odour threshold | No data available | |
| pH | No data available | |
| Melting point (°C) | No data available | |
| Freezing point (°C) | No data available | |
| Boiling point(°C) | No data available | |
| Flash point (°C) | No data available | |
| Evaporation rate | No data available | |
| Flammable | no | |
| Upper/lower flammability or explosive limits | No data available | |
| Vapour pressure (mmHg 20°C) | No data available | |
| Vapour density | No data available | |
| Bulk density (g/l) | 450 | 650 |
| Solubility (20°C, g/l) | No data available | |
| Partition coefficient n-octanol/water | No data available | |
| Auto-ignition temperature | No data available | |
| Decomposition temperature | No data available | |
| Viscosity 40°C (cps) $\geq 7,0$ cps | No data available | |
| Explosive properties | No data available | |
| Oxidising properties | No data available | |

The specifications indicated in the present document have been determined from one first sample and can undergo adjustments once we dispose of the data coming from the successive lots of manufacture. The adjustments will

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Imply the issuance of a new technical data sheet, with its corresponding version.

9.2. Other information

No information available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under environmental conditions of temperature and pressure.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

We recommend avoid contact with strong oxidizing agents and heat sources.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

For this preparation, no toxicological tests have been carried out, but it is composed by raw materials that have bibliographic toxicological data. Therefore, this preparation must be handled with all the possible precautions. More information, please read the above mentioned sections 7 and 8.

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12. ECOLOGICAL INFORMATION

12.1. Toxicity

For this preparation, no ecotoxicological tests have been carried out, but it is composed by raw materials that have bibliographic ecotoxicological data. Therefore, this preparation must be handled with all the possible precautions. More information, please read the above mentioned section 6.

12.2. Persistence and degradability

Biodegradability: Not determined.

Precautions: Prevent contamination of soil, ground and surface water.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of in accordance with local regulations.

Do not reject wastes directly into drainage or environment.

We recommend incineration to eliminate any residue.

Do not re-use empty containers.

More information, please read the above mentioned sections 6, 7 and 8.

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14. TRANSPORT INFORMATION

14.1. UN number

NR

14.2. UN proper shipping name

Not restricted-

No restringido-

14.3. Transport hazard class(es)

NR

14.4. Packing group

14.5. Environmental hazards

no

14.6. Special precautions for user

None required.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

None required.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No information available.

15.2. Chemical safety assessment

No information available.

Lucta SA

Aromas, Fragancias y Aditivos para nutrición animal
Flavours, Fragrances & Feed Additives

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16. OTHER INFORMATION

The information and specifications contained in this Safety Data Sheet complement the Technical Data Sheet ones, but they do not substitute it.

Users are required to regard the recommendation provided in this sheet in order to avoid risks.

The values included in this declaration are calculated concentrations and do not replace analytical determinations in the product.

The information provided in this document is deemed to be valid from the date of issue thereof and until it is replaced by other new information. It is based on our current knowledge, state of the art and experience and refers only to the product specific.

Lucta shall not assume any liability for claims, expenses, costs or damages arising from the inadequate or unforeseeable handling, use, mixing or levels of dosage which are carried out with the product, nor for the recommendations, statements or information contained in the labelling or in any other documentation of the product in which it is included. Those who acquire or use the product of Lucta shall be the only persons responsible for the above-mentioned actions and for ensuring that the product is used in accordance with the laws, rules and regulations in force, waiving any claim against Lucta and undertaking to hold it entirely harmless and indemnify Lucta in relation to any claim, expense, cost or damage which, for the reasons or actions indicated in this paragraph, are brought against or sought from Lucta.

The maximum liability of Lucta, for any reason, shall not in any event exceed the price of the specific product supplied. Lucta shall not be liable for loss of profits, loss of earnings or incomes, delays, claims against or of the customer, nor for special, punitive, consequential or indirect loss and damages (whether contractual or extra-contractual) which may be suffered by those who acquire or use the product of Lucta, or the customers of such persons.

The acquisition or use of the product manufactured by Lucta involves knowledge and express acceptance of this clause in its entirety.

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