

SAFETY DATA SHEET
According to Regulation (EU) No 453/2010

LUCTAROM 29479Z

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product: LUCTAROM 29479Z
CAS Number: : Not applicable (mixture)
REACH Registration: Not applicable according to Regulation (EC) No 1907/2006; Article 2 - Point 5

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: productsafety@lucta.com

1.4. Emergency telephone number

Tel. +34 938 458 888 (9:00-17:00 Central European time)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Serious eye damage/eye irritation, Hazard Category 2; H319
Hazardous to the aquatic environment — Chronic Hazard, Category 3; H412
Sensitisation — Skin, Hazard Category 1A; H317

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Signal word:
Warning

Hazard pictogram:



Contains:

d-Limonene(CAS 5989-27-5)
Cinnamaldehyde(CAS 104-55-2)
Geraniol(CAS 106-24-1)

Indications of danger:

H317A	May cause an allergic skin reaction (Category 1A).
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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SECTION 4: First aids 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.

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

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

SECTION 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.

SECTION 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.

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.

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6.4. Reference to other sections

See section 8 and 13.

SECTION 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. Avoid any type of spill or leak. Do not leave open containers.

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. Keep only in the original container.

- Storage class : According to regulations in each country.
- Incompatible materials: Keep away from oxidising agents.
- Packing Type: According to current legislation transport.

7.3. Specific end use(s)

See section 1.2 and Technical Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters:

Country	Name	Limit values
Austria	Bornan-2-one	TWA:2ppm-13mg/m ³
Australia	Bornan-2-one	TWA:2ppm-12mg/m ³ ,STEL:3ppm-19mg/m ³
Australia	Isopentyl acetate	50 ppm TWA, 270 mg/m ³ TWA, 100
Belgium	Bornan-2-one	TWA:2ppm-12mg/m ³ ,STEL:3ppm-19mg/m ³
Belgium	Benzyl acetate	TWA:10ppm-62mg/m ³
Canada	Bornan-2-one	TWA:2ppm-12mg/m ³ ,STEL:3ppm-19mg/m ³
Canada	Benzyl acetate	TWA:10ppm
Switzerland	Bornan-2-one	TWA:2ppm-13mg/m ³
Germany	Bornan-2-one	TWA:2ppm-12mg/m ³
Denmark	Bornan-2-one	TWA:2ppm-12mg/m ³ ,STEL:4ppm-24mg/m ³
Denmark	Benzyl acetate	TWA:10ppm-61mg/m ³ ,STEL:20ppm-122mg/m ³
Spain	Bornan-2-one	TWA:2ppm-13mg/m ³ ,STEL:3ppm-19mg/m ³
Spain	Benzyl acetate	TWA:10ppm-62mg/m ³
Finland	Bornan-2-one	TWA:0,3ppm-1,9mg/m ³
France	Bornan-2-one	TWA:2ppm-12mg/m ³
Ireland	Bornan-2-one	TWA:2ppm-12mg/m ³ ,STEL:15min. 3ppm-15min. 18mg/m ³
South Korea	Bornan-2-one	TWA:2ppm-12mg/m ³ ,STEL:3ppm-18mg/m ³
Latvia	Bornan-2-one	TWA:3mg/m ³
Latvia	Benzyl acetate	TWA:5mg/m ³
Malaysian	Bornan-2-one	TWA:2ppm-12mg/m ³
Netherlands	Bornan-2-one	TWA:2ppm-12mg/m ³
Norway	Bornan-2-one	TWA:2ppm-12mg/m ³
New Zealand	Bornan-2-one	TWA:2ppm-12mg/m ³ ,STEL:3ppm-19mg/m ³
New Zealand	Isopentyl acetate	100 ppm TWA, 532 mg/m ³ TWA
Poland	Bornan-2-one	TWA:12mg/m ³ ,STEL:18mg/m ³
Portugal	Bornan-2-one	TWA:2ppm,STEL:3ppm
Russian Federation	Bornan-2-one	TWA:3mg/m ³
Singapore	Bornan-2-one	TWA:2ppm-12mg/m ³ ,STEL:3ppm-19mg/m ³

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Country	Name	Limit values
The United Kingdom	Bornan-2-one	TWA:2ppm-13mg/m ³ ,STEL:3ppm-19mg/m ³
United States	Bornan-2-one	TWA:2mg/m ³

8.2. Exposure controlsExposure 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.

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.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	:	powder
Colour	:	very light pink
Odour	:	raspberry, strawberry, fresh, balsamic
Odour threshold	:	No data available
pH	:	Not applicable
Melting point (°C)	:	No data available
Freezing point (°C)	:	No data available
Boiling point(°C)	:	No data available
Flash point (°C)	:	Not applicable
Evaporation rate	:	No data available
Flammable	:	no
Explosive limits	:	No data available
Vapour pressure (mmHg 20°C)	:	Not applicable
Vapour density	:	No data available
Bulk density (g/l)	:	440 - 640
Solubility (g/l 20°C)	:	No data available
Partition coefficient n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity (cps 40°C)	:	Not applicable
Explosive properties	:	No data available
Oxidising properties	:	Non-oxidising (by EU criteria)

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 imply the issue of a new technical data sheet, with its corresponding version.

9.2. Other information

No information available.

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It presents no significant reactivity hazards, by itself or in contact with water.

10.2. Chemical stability

Stable under environmental conditions of temperature and pressure.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

We recommend avoid contact with strong oxidizing agents and heat sources. Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Avoid contact with strong acids, alkali or oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide and unidentified organic compounds may be formed during combustion.

SECTION 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.

Acute Toxicity Estimates

ATE LD50 Oral (mg/kg):	: >5.000,0 [Estimated]
ATE LD50 cutaneous (mg/kg):	: >5.000,0 [Estimated]
ATE LC50 inhalation (mg/l/4h):	: >35,0 [Estimated]

Corrosivity

See section 3.

Sensitisation

See section 3.

Germ cell mutagenicity

See section 3.

Carcinogenicity

See section 3.

Reproductive toxicity

Does not contain any ($\geq 0,1\%$)

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According to Regulation (EU) No 453/2010**LUCTAROM 29479Z****SECTION 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.

Acute Toxicity Estimates

TE LC50 (mg/l 96h) : 15,70[Estimated]

Chronic Toxicity Estimates

TE LC50 (mg/l 96h) : 37,64[Estimated]

12.2. Persistence and degradability

Biodegradability: Not determined.
See exposure scenarios for each substance, section 3.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

See exposure scenarios for each substance, section 3.

12.5. Results of PBT and vPvB assessment

See section 2.3.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

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.

13.1.1. Product / Packaging disposal

Dispose of in accordance with local regulations. If necessary Lucta, S.A. can advise you; environmental@lucta.com

13.1.2. Waste treatment-relevant information

Do not reject wastes directly into drainage or environment. According to current regulations in each region.

13.1.3. Sewage disposal-relevant information

Wastewater treatment, biological treatment.

13.1.4. Other disposal recommendations

Waste disposal must be with an authorized manager and authorized transporter. According to current regulations in each region.

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SECTION 14: Transport information

14.1. UN number

NR

14.2. UN proper shipping name

Not regulated as dangerous goods.

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

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SECTION 15: Regulatory information

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

15.1.1. WGK

WGK : : 2 [Estimated]

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



Irritant

R43

May cause sensitisation by skin contact

R52

Harmful to aquatic organisms

R53

May cause long-term adverse effects in the aquatic environment

15.1.3. NFPA Classification



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Health : : 3
Flammability : : 0
Reactivity : : 0
Special risks : :

15.2. Chemical safety assessment

Chemical safety assessment has not been carried out.

SECTION 16: Other information**16.1. Indication of changes**

Ver. 1.30/01/15 .EDI2A,EHC3,SS1A
And other editorial changes/corrections.

16.2. Key literature references and sources for data

ECHA; C&L Inventory database; Labelling Manual IFRA-IOFI; ECHA; OECD; Suppliers information.

16.3. Evaluation method

Article 9, paragraph 4 of Regulation (EC) No 1272/2008 is used for the purpose of classification for mixtures.

16.4. Descriptions of H phrases mentioned in Section 3

For more information:
<http://www.lucta.com/ghs/hstatements.pdf>

16.5. Abbreviations and acronyms

ATE - Acute toxicity estimation
BCF - Bioaccumulation factor
CLV - Ceiling limit value
vPvB - Very persistent and very bioaccumulative
nsb - Not soundly-based
PBT - Persistent, bioaccumulative and toxic
STEL - Exposure standard, short term exposure limit
TE - Toxicity estimation
TWA - Exposure standard, time weighted average (8 hours)
WGK - Water Hazard Class

16.6. Further 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.

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

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